

Oracle® Enterprise Manager Cloud Control

Licensing Information User Manual



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The Oracle logo, consisting of a solid red square with the word "ORACLE" in white, uppercase, sans-serif font centered within it.

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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, contact your Oracle sales representative or refer to the resources listed in [Related Resources](#) for more information.

Oracle Enterprise Manager 13c 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:

- [Audience](#)
- [Documentation Accessibility](#)
- [Related Resources](#)
- [Conventions](#)

Audience

This book is intended for all purchasers of Oracle Enterprise Manager Cloud Control 13c.

Documentation Accessibility

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

Access to Oracle Support

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

Related Resources

For more information, see the following documents:

- *Oracle Database Licensing Information*
- *Oracle Application Server Licensing Information*

- *Oracle Enterprise Manager Cloud Control Introduction*

You can access these documents from the Oracle Help Center:

<http://docs.oracle.com/en/>

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

<http://www.oracle.com/us/corporate/pricing/software-investment-guide/index.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.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

Introduction to Oracle Enterprise Manager Licensing

Oracle Enterprise Manager Cloud Control 13c is Oracle's single, integrated solution for managing all aspects of the Oracle Cloud and the applications running on it. It 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 unequaled 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:

- [Enterprise Database Management](#)
- [Oracle Middleware Enterprise Management](#)
- [Cloud Management](#)
- [Identity Management Enterprise Management](#)
- [Other Infrastructure Management](#)
- [Packaged Application Management](#)
- [End-User Monitoring](#)
- [Enterprise Manager Base Functionality](#)
- [Third-Party Licenses for Enterprise Manager Cloud Control](#)

License Authorization Requirement

You can use the options, management packs, reports, licensed repository views, or Command Line Interface (CLI) verbs described in these chapters **only** with 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.

Enabling and Disabling Management Packs in Oracle Enterprise Manager

To enable or disable the functionality for most packs in Oracle Enterprise Manager Cloud Control 13c:

1. Log in to Oracle Enterprise Manager as a super administrator.

2. From the **Setup** menu (in the upper-right corner of the page), select **Management Packs**, and 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** - You do not have 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 automatically assigned 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 13c cannot access any Management Pack functionality that you have disabled.

Displaying Management Pack Information in Oracle Enterprise Manager

Oracle Enterprise Manager indicates licenses by displaying an abbreviation of the management pack. This feature is not enabled by default and to enable it:

1. Go to the **Oracle Enterprise Manager** home page.
2. From the **Setup** menu (in the upper-right corner of the page), select **Management Packs**, and then **Enable Annotations**.

Once enabled, you can go to a target's home page, select the menus, and the management pack abbreviation is displayed next to the menu options that require a management pack. For example, if you enable annotations and go to the home page of a Database target and select the **Performance** menu, **DD** is displayed next to the **Performance Home** menu option. **DD** is the abbreviation of the Database Diagnostics Pack.

You can also select the **Setup** menu, then **Management Packs** and:

- Select **Packs for this Page** to view the **Management Packs for this Page** dialog box, which provides information regarding the license pack required for the page you are on.
- Select **License Information** to view the list of management packs and information such as the abbreviation, name, and a brief description of the pack.

Additional Database and Fusion Middleware Information

For additional information about licensed products associated with either Oracle Database, Oracle Fusion Middleware, or Oracle WebLogic Server, see the corresponding licensing information available in the Oracle Help Center:

<https://docs.oracle.com/en/>

Oracle Enterprise Manager Restricted-use License

- Oracle Enterprise Manager includes a restricted-use license of the Oracle Database Enterprise Edition for use only with the Oracle Management Repository as well as with the following complementary repositories used by Oracle Enterprise Manager: Always-on Monitoring Repository, AWR Warehouse, Ops Center, Real User Experience Insight, Load Testing, and Test Manager.

Any use of Oracle Database options by Oracle Enterprise Manager's SYSMAN schema is included with the restricted-use license and does not require a separate license.

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 servlet functionality. A restricted-use license for WebLogic clustering is included, to support

deployment of cluster of Oracle Business Intelligence Publisher servers, only when used with Oracle Enterprise Manager.

- Oracle Enterprise Manager includes restricted use of Oracle Business Intelligence Publisher (BI Publisher) and Business Intelligence Mobile for use with Oracle Enterprise Manager functions and interfaces only. This restricted BI Publisher license allows reporting only against the Oracle Enterprise Manager repository and against data dictionary (including AWR and AWR Warehousing data) of target databases. In order to report against other data sources, it is necessary to have the BI Publisher license.

 **Note:**

Some Oracle Enterprise Manager management packs include BI Publisher reports that use a different data source. The license to use these reports is provided as part of the license for the relevant management pack. More details on these reports are provided in the relevant chapter of this document.

- Restricted-use license of Oracle ZFS Storage Appliance Cloning (Part #7102338) is included with Oracle Enterprise Manager Snap Clone, a feature of [Oracle Cloud Management Pack for Oracle Database](#).

2

Enterprise Database Management

This chapter describes the management packs offered by Enterprise Manager in support of Oracle Database. The following management packs are included:

- [Oracle Diagnostics Pack](#)
- [Oracle Tuning Pack](#)
- [Database Lifecycle Management Pack for Oracle Database](#)
- [Oracle Data Masking and Subsetting Pack](#)
- [Oracle Real Application Testing](#)
- [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 Cloud Control, Oracle Enterprise Manager Database Express, and APIs provided with Oracle Database software.

For information on the Oracle Databases certified for use with Oracle Enterprise Manager:

1. Sign in to [My Oracle Support](#) and click the **Certifications** tab.
2. In the **Certification Search** region:
 - Select **Enterprise Manager Base Platform - OMS** from the **Product** list.
 - Select the release you are interested in from the **Release** list.
3. Click **Search**.

The certified databases and versions are displayed. For more information, go to the [Oracle Database Documentation](#) page and see the *Oracle Database Licensing Information User Manual* for the Oracle Database version you are interested in.

Oracle Diagnostics Pack

The Oracle Diagnostics Pack provides automatic performance diagnostic and advanced system monitoring functionality. The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Oracle Diagnostics Pack	Features	<p>The Oracle Diagnostics Pack includes the following features:</p> <ul style="list-style-type: none">• Performance monitoring and diagnostics.• Automatic Workload Repository (AWR) that captures statistics automatically, including snapshot data, active session history data, and workload reports.• AWR Warehouse to seamlessly retain AWR data beyond the default retention period and perform historical performance analysis tasks using Active Session History (ASH) Analytics, AWR, and Compare Period Reports.• AWR Warehouse Diagnosability is a part of AWR warehouse and it proactively identifies the points of failure after the AWR warehouse is configured and the ETL process has started running between the source database and warehouse, by running a number of tests on the AWR warehouse or selecting a set of sources and determining the health of the AWR warehouse configuration.• Automatic Database Diagnostic Monitor (ADDM) for performance analysis based on AWR data.• Real Time ADDM to allow analysis of transient performance issues and hung databases.• Active Session History (ASH) providing an "Always-On" capture of database performance activity using one-second samples of the session state.• ASH analytics provides insight to the database workload profile across various performance dimensions using ASH data.• Performance Hub provides a single view of database performance with access to ADDM, SQL Tuning, Real-Time SQL Monitoring, and ASH Analytics under the same hood.• Replay Compare Period Report provides accurate performance analysis using the ASH infrastructure for capture/replay sessions.• Exadata Cell Grid Administration• Exadata Cell Grid Performance• Exadata Cell Group Health Overview Page• Exadata Resource Utilization• Blackouts to suspend monitoring on targets to support scheduled maintenance periods.• Notifications that 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.• Metric and Alert/Event History• User-Defined Metrics and Metric Extensions• Management Connectors• Dynamic metric baselines and Adaptive metric thresholds• Monitoring Templates and Template Collections

Management Pack	Type of Licensing Information	Licensing Information
Oracle Diagnostics Pack	Feature Requirements	<ul style="list-style-type: none"> • Bottleneck detection and Component top wait event analysis • Memory access mode to retrieve performance statistics directly from the Shared Global Area (SGA). <p>In order to use the features listed above, you must purchase licenses for Oracle Diagnostics Pack. The <code>CONTROL_MANAGEMENT_PACK_ACCESS</code> initialization parameter controls access to Oracle Diagnostics Pack and Oracle Tuning Pack. This parameter can be set to one of three values:</p> <ul style="list-style-type: none"> • <code>DIAGNOSTIC+TUNING</code>: Oracle Diagnostics Pack and Oracle Tuning Pack functionality is enabled in the database server. • <code>DIAGNOSTIC</code>: Only Oracle Diagnostics Pack functionality is enabled in the database server. • <code>NONE</code>: Oracle Diagnostics Pack and Oracle Tuning Pack functionality is disabled in the database server. <p>Any and all methods of accessing Oracle Diagnostics Pack functionality, whether through Enterprise Manager Console, desktop widgets, command-line APIs, or direct access to the underlying data, require an Oracle Diagnostics Pack license.</p>

Management Pack	Type of Licensing Information	Licensing Information
Oracle Diagnostics Pack	Access Features via API	<p>Oracle Diagnostics Pack features can also be accessed by way of the following database server APIs and command-line interfaces:</p> <ul style="list-style-type: none"> • <code>DBMS_WORKLOAD_REPOSITORY</code> This API is part of the Oracle Diagnostics Pack. • <code>DBMS_ADDM</code> This API is part of the Oracle Diagnostics Pack. • <code>DBMS_ADVISOR</code> This API package is part of the Oracle Diagnostics Pack if you specify <code>ADDM</code> as the value of the <code>advisor_name</code> parameter or if you specify for the value of the <code>task_name</code> parameter any value starting with the <code>ADDM</code> prefix. • <code>DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT</code> This API function is part of the Oracle Diagnostics Pack. • <code>V\$ACTIVE_SESSION_HISTORY</code> This dynamic performance view and its underlying table, <code>X\$ASH</code>, are part of the Oracle Diagnostics Pack. • <code>DBA_STREAMS_TP_PATH_BOTTLENECK</code> This API is part of the Oracle Diagnostics Pack. • <code>DBA_ADDM_</code> All views beginning with <code>DBA_ADDM_</code> are part of the Oracle Diagnostics Pack. • <code>DBA_STREAMS_TP_COMPONENT_STAT</code> Some data in <code>DBA_STREAMS_TP_COMPONENT_STAT</code> requires Oracle Diagnostics Pack. The following filter clause to any query on <code>DBA_STREAMS_TP_COMPONENT_STAT</code> shows Diagnostics-Pack-dependent data: <code>where STATISTIC_UNIT = 'PERCENT'</code> For example, the following query shows Diagnostics-Pack-dependent data only: <pre>SELECT * FROM DBA_STREAMS_TP_COMPONENT_STAT where STATISTIC_UNIT = 'PERCENT';</pre> • <code>DBA_HIST_</code> All data dictionary views beginning with the prefix <code>DBA_HIST_</code> are part of this pack, along with their underlying tables. The only exception are the views: <code>DBA_HIST_SNAPSHOT</code>, <code>DBA_HIST_DATABASE_INSTANCE</code>, <code>DBA_HIST_SNAP_ERROR</code>, <code>DBA_HIST_SEG_STAT</code>, <code>DBA_HIST_SEG_STAT_OBJ</code>, and <code>DBA_HIST_UNDOSTAT</code>. They can be used without the Oracle Diagnostics Pack license. • <code>DBA_ADVISOR_</code> All data dictionary views with the prefix <code>DBA_ADVISOR_</code> are part of this pack if queries to these views return rows with the value <code>ADDM</code> in the <code>ADVISOR_NAME</code> column or a value of <code>ADDM*</code> in the <code>TASK_NAME</code> column or the corresponding <code>TASK_ID</code>.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Diagnostics Pack	Disabling Licensed Links	<p>This procedure disables all the links and tabs associated with Oracle Diagnostics Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Diagnostics Pack and therefore require a pack license.</p> <ul style="list-style-type: none">• From the Setup menu, select Management Packs > Management Pack Access.• On the Management Pack Access page, you can grant and remove access from all the management packs. By default, access is granted. To disable access, click the appropriate check box for the Diagnostics Pack and click Apply.
Oracle Diagnostics Pack	Licensed Reports	<p>The following reports found in the <code>/rdbms/admin/</code> directory of the Oracle home directory are part of the Oracle Diagnostics Pack:</p> <pre>awrrpt.sql awrrpti.sql awrgrpt.sql awrgrpti.sql awrgdrpt.sql awrgdrpi.sql addmrpt.sql addmrpti.sql ashrpt.sql ashrpti.sql awrddrpt.sql awrddrpi.sql awrsqrpt.sql awrsqrpti.sql awrextr.sql awrload.sql awrinfo.sql spawrrac.sql</pre>

Management Pack	Type of Licensing Information	Licensing Information
Oracle Diagnostics Pack	Licensed Repository Views	<p>The following repository views are part of the Diagnostics Pack for Oracle Database:</p> <p>Monitoring Views</p> <p>MGMT\$ALERT_ANNOTATIONS MGMT\$ALERT_CURRENT MGMT\$ALERT_HISTORY MGMT\$ALERT_NOTIF_LOG MGMT\$AVAILABILITY_CURRENT MGMT\$AVAILABILITY_HISTORY MGMT\$BLACKOUT_HISTORY MGMT\$BLACKOUTS MGMT\$METRIC_COLLECTIONS MGMT\$METRIC_CURRENT MGMT\$METRIC_DAILY MGMT\$METRIC_DETAILS MGMT\$METRIC_HOURLY MGMT\$TARGET_METRIC_COLLECTIONS MGMT\$TARGET_METRIC_SETTINGS</p> <p>Template Views</p> <p>MGMT\$TEMPLATES MGMT\$TEMPLATE_METRIC_COLLECTION MGMT\$TEMPLATE_METRIC_SETTINGS MGMT\$TEMPLATE_POLICY_SETTINGS</p>

Oracle Tuning Pack

Oracle Tuning Pack provides database administrators with expert performance management for the Oracle environment, including SQL tuning and storage optimizations. The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Oracle Tuning Pack	Prerequisites	Oracle Diagnostics Pack is a prerequisite product to Oracle Tuning Pack. Therefore, to use Oracle Tuning Pack, you must also have Oracle Diagnostics Pack .

Management Pack	Type of Licensing Information	Licensing Information
Oracle Tuning Pack	Feature Summary	<ul style="list-style-type: none"> • In-Memory Advisor analyzes database workload and makes recommendations on which database objects to place in the Database In-Memory Store for optimal database performance. • SQL Access Advisor recommends schema changes needed to improve database performance. • SQL Tuning Advisor analyzes SQL statements and makes recommendations for better execution. Includes an automatic mode to run during system maintenance windows as a maintenance task. • Automatic SQL Tuning selects high-load SQL queries in the system and generates recommendations on how to tune them. Executes during the system maintenance window. • SQL Profiles enables transparent tuning of queries without requiring any application changes. • Real-time Database Operations Monitoring provides live visual displays to track the progress of SQL and PL/SQL queries associated with a business operation. • Real-time SQL and PL/SQL Monitoring monitors execution of long-running or parallel SQL statements in real-time. • Reorganize objects reorganizes database space usage for objects or tablespaces to improve performance. <p>In order to use the features listed above, you must purchase licenses for Oracle Tuning Pack, with one exception:</p> <ol style="list-style-type: none"> 1. Use of In-Memory Advisor for databases where Database In-Memory option has not yet been deployed does NOT require Oracle Tuning Pack license.
Oracle Tuning Pack	Feature Summary (Continued)	<p>A new initialization parameter, <code>CONTROL_MANAGEMENT_PACK_ACCESS</code>, is introduced to control access to Oracle Diagnostics Pack and Oracle Tuning Pack in the database server. This parameter can be set to one of three values:</p> <ul style="list-style-type: none"> • <code>DIAGNOSTIC+TUNING</code>: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server. • <code>DIAGNOSTIC</code>: Only Oracle Diagnostics Pack functionality is enabled in the server. • <code>NONE</code>: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server. <p>Any and all methods of accessing Oracle Tuning Pack functionality, whether through Enterprise Manager Console, desktop widgets, command-line APIs, or direct access to the underlying data, require an Oracle Tuning Pack license.</p>

Management Pack	Type of Licensing Information	Licensing Information
Oracle Tuning Pack	Disabling Licensed Links	<p>This procedure disables all the links and tabs associated with Oracle Tuning Pack in Enterprise Manager. All the disabled links and tabs are part of Oracle Tuning Pack and therefore require a pack license.</p> <ul style="list-style-type: none"> From the Setup menu, select Management Packs > Management Pack Access. On the Management Pack Access page, you can grant and remove access from all the management packs. By default, access is granted. To disable access, click the appropriate check box for the Tuning Pack and click Apply.
Oracle Tuning Pack	Accessing Features through Command-Line APIs	<p>Oracle Tuning Pack features can also be accessed by way of the following database server APIs and command-line interfaces:</p> <ul style="list-style-type: none"> DBMS_ADVISOR When the value of the <code>advisor_name</code> parameter is either SQL Tuning Advisor or SQL Access Advisor, this API package is part of the Oracle Tuning Pack. DBMS_SQLTUNE This API is part of the Oracle Tuning Pack. V\$SQL_MONITOR This API is part of the Oracle Tuning Pack. V\$SQL_PLAN_MONITOR This API is part of the Oracle Tuning Pack.
Oracle Tuning Pack	Licensed Reports	<p>The <code>sqltrpt.sql</code> report in the <code>/rdbms/admin/</code> directory of the Oracle home directory is part of this pack.</p>

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 following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Database Lifecycle Types	<p>The Database Lifecycle Management covers the entire lifecycle of the databases, including:</p> <ul style="list-style-type: none"> • 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.
Database Lifecycle Management Pack for Oracle Database	Prerequisites	<p>The Database Lifecycle Management Pack is a prerequisite for the Oracle Cloud Management Pack for Oracle Database.</p>

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	General Feature Summary	<p>The Database Lifecycle Management Pack for Oracle Database includes the following features, which you can use after purchasing a license:</p> <ul style="list-style-type: none"> • Change Activity Plans provide the ability to plan, track in real time, and execute data-centerwide change activities. Activities include: PSU patch rollouts, database consolidation to Exadata, and so on. • Copy Objects to copy database objects with data, with a subset of data, or without data. • Database Patching - an end-to-end patch automation for Oracle Database and Real Application Cluster (RAC). • Database Provisioning of Oracle Database and Real Application Cluster (RAC). • Fleet Maintenance - a bulk deployment of patches on all configuration types of Oracle Database with minimal downtime • Applicable only for individual & group of Grid Infrastructure, Database targets & Not DBaaS Pool(s). Subscription to an Image along with Self-service update functionality requires Cloud Management for Database. • Upgrade existing Oracle Database and/or Oracle Grid Infrastructure across major release versions (for example, 11.2.0.x to 12.1.0.1, also 11.2.0.x to other 11.2.0.x versions). Upgrade Standalone Databases, RAC (including Grid Infrastructure and RAC Database) and Dataguard Databases. Dataguard Databases both Primary and Standby are upgraded in rolling method using Transient Logical Standby method. • Enterprise Data Governance to automatically discover, scan and, identify databases of sensitive nature in the enterprise. Allows administrators to run deep scans in flagged databases for sensitive artifacts, pin-pointing its location within the database. • Disaster Recovery through Site Guard to automate complete site failover of Oracle Database. • File Synchronization of configuration file differences during a comparison. • Notifications on configuration changes or differences. • RAC Scale Back to delete or scale back a single instance database from RAC. • RAC Scale Out to extend single instance databases to RAC.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Compliance and Configuration Features	<p>The Database Lifecycle Management Pack for Oracle Database includes the following compliance and configuration features:</p> <ul style="list-style-type: none"> • Compliance frameworks, standards, and extensibility to meet industry and regulatory compliance requirements. • Compliance checks on Engineered systems, such as Exadata-specific compliance standards created by integrating the Exachk healthcheck tool. <p>Note: Use of Exachk/Orachk compliance standards for more than a single engineered system (for example, Exadata) or which have been customized requires license of Database Lifecycle Management Pack.</p> <ul style="list-style-type: none"> • Configuration Collection Extensibility to create custom configuration collections and extend current collections. • Configuration Compare, one-to-one and one-to-many. • Configuration History to report and notify on configuration or relations changes during a specific time frame. • Configuration Instance Browser of items and associations associated with a target. • Configuration Save for reference, baselines or Gold Standards. • Configuration Search on a specific target or across relationships. • Configuration Topology for a specified target and its dependencies along with other targets that are dependent on it. • Configuration drift management to continually monitor any number of targets for drift from live of saved reference target. • Real-time configuration change detection provides real-time configuration change detection and automation of compliance frameworks along with automated observation authorization using a Change Management Connector.
Database Lifecycle Management Pack for Oracle Database	Compliance and Configuration Features (continued)	<ul style="list-style-type: none"> • User Defined Deployment Procedures (UDDP) to automate custom processes by creating a procedure from scratch by inserting the required phases, steps, and variables. • Ongoing provisioning of Exadata VMs.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Schema Features	<p>The Database Lifecycle Management Pack for Oracle Database includes the following schema features:</p> <ul style="list-style-type: none"> • Schema and Data Comparisons automate the comparison of database schema and data across Databases or saved baselines. • Schema and Data Synchronization to propagate database objects and schemas with or without data, and update database object definitions. • Schema Change Plans allow developers to add changes to the schema in a plan that can be applied to multiple database. • Schema Comparisons to compare database objects in two databases or baselines in Enterprise Manager or SQL developer. • Real-time schema change detection to track schema changes in real time to identify unwanted or unplanned changes.
Database Lifecycle Management Pack for Oracle Database	Pluggable Database (PDB) Features	<p>The Database Lifecycle Management Pack for Oracle Database includes the following PDB features:</p> <ul style="list-style-type: none"> • Pluggable Database (PDB) Create/Plug/Unplug Create PDB from seed, plug PDB from unplugged PDB, and unplug PDB (multiple targets operations or performed using a customized deployment procedure). • PDB Clone to create a clone of an existing PDB. • PDB Migrate to migrate Non-Container Databases (CDB) database to a PDB.
Database Lifecycle Management Pack for Oracle Database	Oracle Fleet Patching & Provisioning (formerly known as Oracle Rapid Home Provisioning) Features	<p>The Database Lifecycle Management Pack for Oracle Database includes the following Oracle Fleet Patching & Provisioning features:</p> <ul style="list-style-type: none"> • Oracle Fleet Patching & Provisioning Deploy software homes to nodes in a cloud computing environment from a single cluster where you create, store, and manage templates of Oracle homes as images of Oracle software, such as databases, middleware, and applications. When deployed across multiple clusters or access to the home server to provision on a remote cluster, this feature requires the Database Lifecycle Management license for the remote clusters. Note: A <i>remote cluster</i> is considered as the server where the clients are installed pointing to a different cluster as a home server. When using Enterprise Manager Cloud Control, deployment procedures and patch plans are used on the Oracle Fleet Patching & Provisioning server to: <ul style="list-style-type: none"> • Provision • Patch clusters or Oracle homes
Database Lifecycle Management Pack for Oracle Database	Licensed Parameters	<p>The <code>init.ora</code> parameter <code>ENABLE_DDL_LOGGING</code> is licensed as part of the Oracle Database Lifecycle Management Pack when set to <code>TRUE</code>. When set to <code>TRUE</code>, the database reports schema changes in real time into the database alert log under the message group <code>schema_ddl</code>. The default setting is <code>FALSE</code>.</p>

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Provisioning and Patching Licensed Links	<p>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.</p> <p>The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database:</p> <p>Database Provisioning Procedures</p> <ul style="list-style-type: none"> From the Enterprise menu, select Provisioning and Patching, then select Procedure Library. All procedures that Clone and Provision a Database are licensed with the Database Lifecycle Management Pack. From the Enterprise menu, select Provisioning and Patching, then select Database Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. On the Oracle Database or cluster database target home page, select the Oracle Database menu, then select Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. On the Oracle Container Database home page, select the Oracle Database menu, then select Provision Pluggable Databases. On the Provision Pluggable Databases page, all operations are licensed except for those explicitly mentioned in the Base Database Management Features section. <p>Database Upgrade</p> <ul style="list-style-type: none"> From the Enterprise menu, select Provisioning and Patching, then Procedure Library. All Procedures that Upgrade a Database are licensed with the Database Lifecycle Management Pack. On the Oracle Database or cluster database target home page (includes Primary and Standby Databases), select the Oracle Database menu, then select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Provisioning and Patching Licensed Links (Continued)	<p>Offline Patching</p> <ul style="list-style-type: none"> From the Setup menu, select 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>User Defined Deployment Procedures (UDDP)</p> <ul style="list-style-type: none"> From the Enterprise menu, select Provisioning and Patching, then Procedure Library. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of the Database Lifecycle Management Pack. <p>RAC Scale Out and Scale Back</p> <ul style="list-style-type: none"> From the Enterprise menu, select Provisioning and Patching, then select Procedure Library. All Procedures that Extend or Scale a database or RAC are licensed with the Database Lifecycle Management Pack. From the Enterprise menu, select Provisioning and Patching, then select Database Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. On the Oracle cluster database target home page, select the Oracle Database menu, then select Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Configuration Licensed Links	<p>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.</p> <p>The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database:</p> <p>Configuration Instance Browser</p> <ul style="list-style-type: none"> From the Oracle Database menu, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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 Collection Extensibility</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration and Custom. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack.
Database Lifecycle Management Pack for Oracle Database	Configuration Licensed Links (Continued)	<p>Configuration Topology</p> <ul style="list-style-type: none"> From the Oracle Database menu, select Configuration, then Topology. In the View drop-down, Used By is licensed as part of the Database Lifecycle Management Pack. From the Oracle Database menu, select Configuration, then Topology, and then Customization. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack. <p>Change Activity Plans</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration. The Change Activity Plans and My Tasks items are licensable as part of the Database Lifecycle Management Pack.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Schema Licensed Links	<p>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.</p> <p>The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database. Starting from the Database target home page:</p> <p>Schema Comparison</p> <ul style="list-style-type: none"> From the Schema menu, select 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> <ul style="list-style-type: none"> From the Schema menu, select 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> <ul style="list-style-type: none"> From the Schema menu, select Change Management. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Database Lifecycle Management Pack.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Other Licensed Links	<p>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.</p> <p>The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database. Starting from the Database target home page:</p> <p>File Synchronization</p> <ul style="list-style-type: none"> 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>Software Standardization Advisor</p> <ul style="list-style-type: none"> From the Administration menu, select Database. On the Database Maintenance page, all features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack. <p>Real-Time Schema Change Detection</p> <ul style="list-style-type: none"> From the Administration menu, select Initialization Parameters. On the Initialization Parameters page, change the <code>enable_ddl_logging</code> option to TRUE to enable this feature, which is licensed as part of the Database Lifecycle Management Pack. <p>Real-time Configuration Change Detection and Compliance</p> <ul style="list-style-type: none"> From the Enterprise menu, select 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.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Reports	<p>The following reports are part of the Database Lifecycle Management Pack for Oracle Database.</p> <p>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, and from the Enterprise menu, select Reports, and then select either Information Publisher Reports or BI Publisher Enterprise Reports.</p> <p>The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of the Database Lifecycle Management Pack:</p> <ul style="list-style-type: none"> • Compliance • Deployment and Configuration • Sample Host reports, Configuration Reports • Security <p>The following reporting areas, reports, and sub-reports under BI Publisher Enterprise Reports are licensed as part of the Database Lifecycle Management Pack:</p> <ul style="list-style-type: none"> • Compliance • Deployment and Configuration • Sample Host reports, Configuration Reports • Security

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed CLI Verbs	<p>The following Enterprise Manager command line interface (CLI) verbs are licensed as part of the Database Lifecycle Management Pack:</p> <pre> associate_cs_targets config_compare config_db_service_target configure_log_archive_locations confirm_instance clone_database create_database describe_instance describe_procedure_input disable_config_history enable_config_history export_compliance_group export_compliance_standard_rule export_facet export_standard fix_compliance_state get_config_searches get_config_templates get_executions get_instance_data get_instance_status get_instances get_oms_config_property get_procedure_types get_procedure_xml get_procedures get_retry_argument get_saved_configs ignore_instance import_compliance_object list_oms_config_properties remove_cs_target_association reschedule_instance resume_instance run_config_search save_procedure set_config_history_retention_period stop_instance submit_procedure suspend_instance switch_database switch_gridinfrastructure db_software_maintenance update_and_retry_step update_procedure_input upgrade_database </pre>

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Compliance Repository Views	<p>The following compliance repository views are part of the Database Lifecycle Management Pack for Oracle Database:</p> <p>MGMT\$CCC_ALL_OBS_BUNDLES MGMT\$CCC_ALL_OBSERVATIONS MGMT\$CCC_DIAG_ANALYTICS MGMT\$CCC_DIAG_QUEUEBACKLOG MGMT\$COMPLIANCE_STANDARD MGMT\$COMPLIANCE_STANDARD_GROUP MGMT\$COMPLIANCE_STANDARD_RULE MGMT\$COMPOSITE_CS_EVAL_SUMMARY MGMT\$CS_ASM_DISKGRP_SETTINGS MGMT\$CS_DB_CONTROL_FILE_COUNT MGMT\$CS_DB_INIT_PARAMS MGMT\$CS_DB_RBS_IN_SYSTEM MGMT\$CS_DB_REC_SEG_SETTINGS MGMT\$CS_DB_REC_TS_SETTINGS MGMT\$CS_DB_REC_USER_SETTINGS MGMT\$CS_DB_REDO_LOG_COUNT MGMT\$CS_DB_REDO_LOGS MGMT\$CS_DB_TABLESPACES MGMT\$CS_DB_TBSP_SEGSPACE_MGMT MGMT\$CS_EVAL_SUMMARY MGMT\$CS_FEATURE_USAGE MGMT\$CS_GROUP_EVAL_SUMMARY MGMT\$CS_GROUP_KEYWORD MGMT\$CS_HA_INFO MGMT\$CS_HIERARCHY MGMT\$CS_KEYWORD MGMT\$CS_RQS_HIERARCHY MGMT\$CS_RULE_ATTRS MGMT\$CS_RULEFOLDER MGMT\$CS_RULE_EVAL_SUMMARY MGMT\$CS_TARGET_ASSOC MGMT\$CS_TGT_ASSOC_TXF_REQ MGMT\$CSG_HIERARCHY MGMT\$CSG_SUBGROUP MGMT\$CSR_CURRENT_VIOLATION MGMT\$CSR_TARGET_ASSOC MGMT\$CSR_VIOLATION_CONTEXT MGMT\$CSRF_TARGET_ASSOC MGMT\$EM_CS_RULE_EVENT_ERROR MGMT\$EM_RULE_VIOL_CTXT_DEF MGMT\$ICS_TARGET_ASSOC MGMT\$REPOSITORY_RULE_PARAMS MGMT\$REPOSITORY_RULE_BIND_VARS MGMT\$REPO_RULE_CHK_DETAILS MGMT\$RULE_KEYWORD</p>

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Provisioning and Patching Repository Views	<p>The following provisioning and patching repository views are part of the Database Lifecycle Management Pack for Oracle Database:</p> <p>Provisioning and Patching Views</p> <p>EM\$PROV_APPTYPES EM\$PROVAPP_METADATA EM\$PROVAPP_METADATA_VERSION EM\$PROVAPP_TAGS EM\$PROVAPP_TAG_PROPERTIES MGMT\$PA_RECOM_METRIC_SOURCE</p> <p>Patching Views</p> <p>GC\$EM_PC_PLAN_PATCHES GC\$EM_PC_PLANS GC\$EM_PC_PLAN_TARGETS GC_PC_EXECUTION_INSTANCES GC_PC_PLAN_ANALYSIS_RS GC_PC_PLAN_REMEDY GC_PC_PLAN_REMEDY_DETAILS GC_PC_PLAN_USERS GC_PC_TARGETS MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS MGMT\$ARU_FAMILY_PRODUCT_MAP MGMT\$ARU_LANGUAGES MGMT\$ARU_PATCH_RECOMMENDATIONS MGMT\$ARU_PLATFORMS MGMT\$ARU_PRODUCT_RELEASE_MAP MGMT\$ARU_PRODUCTS MGMT\$ARU_RELEASES MGMT\$ARU_TARGETS MGMT\$PA_AFFTED_HOST_GUID_OH MGMT\$PA_AFFTED_HOST_OH MGMT\$PA_AFFTED_TARGETS MGMT\$PA_FINAL_PATCH_LIST MGMT\$PA_TARGET_MAPPING MGMT\$PR_APPL_PATCHES_TO_OH MGMT\$PR_APPL_PATCHES_TO_OH_TGT MGMT\$PR_HOME_INFO MGMT\$PR_HOMES_AFFECTED_COUNT MGMT\$RECOM_METRIC_SOURCE</p>

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Oracle Home Patching Repository Views	<p>The following Oracle home patching repository views are part of the Database Lifecycle Management Pack for Oracle Database:</p> <pre> MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS MGMT\$APPL_PATCH_AND_PATCHSET MGMT\$CPF_ADVISORY_INFO MGMT\$CPF_HOMES_INFO MGMT\$CPF_PATCH_INFO MGMT\$EM_HOMES_PLATFORM MGMT\$HOMES_AFFECTED MGMT\$OH_CLONE_PROPERTIES MGMT\$OH_COMP_DEP_RULE MGMT\$OH_COMP_INST_TYPE MGMT\$OH_COMPONENT MGMT\$OH_CRS_NODES MGMT\$OH_DEP_HOMES MGMT\$OH_FILE MGMT\$OH_HOME_INFO MGMT\$OH_INSTALLED_TARGETS MGMT\$OH_INV_SUMMARY MGMT\$OH_PATCH MGMT\$OH_PATCHED_COMPONENT MGMT\$OH_PATCHED_FILE MGMT\$OH_PATCH_FIXED_BUG MGMT\$OH_PATCHSET MGMT\$OH_VERSIONED_PATCHV MGMT\$PATCH_ADVISORIES </pre>

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Configuration Repository Views	<p>The following configuration repository views are part of the Database Lifecycle Management Pack for Oracle Database:</p> <p>Configuration Views</p> <p>GC\$ECM_CONFIG_SUMMARY GC\$ECM_COMP_PROPERTIES GC\$ECM_CURR_CONFIG GC\$ECM_CURR_CONFIG_FLAT_MEMS GC\$ECM_CURR_CONFIG_SNAPSHOTS GC\$ECM_CURR_TARGET_SNAPSHOTS GC\$ECM_DATA_RETENTION_TIME GC\$ECM_GEN_SNAPSHOT GC\$ECM_SAVED_CONFIG GC\$ECM_SAVED_CONFIG_FLAT_MEMS GC\$ECM_SAVED_CONFIG_SNAPSHOTS GC\$ECM_SAVED_CONFIG_TARGETS GC\$ECM_SAVED_TARGET_SNAPSHOTS MGMT\$CCS_DATA MGMT\$CCS_DATA_SOURCE MGMT\$CCS_DATA_SOURCE_VISIBLE MGMT\$CCS_DATA_VISIBLE MGMT\$DB_CONTROLFILES MGMT\$DB_DATAFILES MGMT\$DB_DBNINSTANCEINFO MGMT\$DB_FEATUREUSAGE MGMT\$DB_INIT_PARAMS MGMT\$DB_LICENSE MGMT\$DB_OPTIONS MGMT\$DB_REDOLOGS MGMT\$DB_ROLLBACK_SEGS MGMT\$DB_SGA MGMT\$DB_TABLESPACES MGMT\$DB_TABLESPACES_ALL MGMT\$ECM_CMP_JOB_LAST_RESULTS MGMT\$ECM_CMP_JOBS MGMT\$ECM_CMP_RPT_CCS_DS MGMT\$ECM_CMP_RPT_CCS_DS_DTLS MGMT\$ECM_CMP_RPT_CCS_PD_ALL MGMT\$ECM_CMP_RPT_CCS_PD_DIFFS MGMT\$ECM_CMP_RPT_CI_DIFFS MGMT\$ECM_CMP_VISIBLE_CONFIGS MGMT\$ECM_CURRENT_SNAPSHOTS MGMT\$ECM_VISIBLE_SNAPSHOTS MGMT\$SERVICETAG_INSTANCES MGMT\$SERVICETAG_REGISTRY MGMT\$UNPATCHABLE_DB_TARGETS</p>

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Configuration Repository Views (Continued)	Client Configuration Views MGMT\$CSA_COLLECTIONS MGMT\$CSA_FAILED MGMT\$CSA_HOST_COOKIES MGMT\$CSA_HOST_CPUS MGMT\$CSA_HOST_CUSTOM MGMT\$CSA_HOST_IOCARDS MGMT\$CSA_HOST_NICS MGMT\$CSA_HOST_OS_COMPONENTS MGMT\$CSA_HOST_OS_FILESYSEMS MGMT\$CSA_HOST_OS_PROPERTIES MGMT\$CSA_HOST_RULES MGMT\$CSA_HOST_SW MGMT\$ECM_CONFIG_HISTORY
Database Lifecycle Management Pack for Oracle Database	Licensed Security Repository Views	The following Security repository views are part of the Database Lifecycle Management Pack for Oracle Database: MGMT\$ESA_ALL_PRIVS_REPORT MGMT\$ESA_ANY_DICT_REPORT MGMT\$ESA_ANY_PRIV_REPORT MGMT\$ESA_AUDIT_SYSTEM_REPORT MGMT\$ESA_BECOME_USER_REPORT MGMT\$ESA_CATALOG_REPORT MGMT\$ESA_CONN_PRIV_REPORT MGMT\$ESA_CREATE_PRIV_REPORT MGMT\$ESA_DBA_GROUP_REPORT MGMT\$ESA_DBA_ROLE_REPORT MGMT\$ESA_DIRECT_PRIV_REPORT MGMT\$ESA_EXMPT_ACCESS_REPORT MGMT\$ESA_KEY_OBJECTS_REPORT MGMT\$ESA_OH_OWNERSHIP_REPORT MGMT\$ESA_OH_PERMISSION_REPORT MGMT\$ESA_POWER_PRIV_REPORT MGMT\$ESA_PUB_PRIV_REPORT MGMT\$ESA_SYS_PUB_PKG_REPORT MGMT\$ESA_TABSP_OWNERS_REPORT MGMT\$ESA_TRC_AUD_PERM_REPORT MGMT\$ESA_WITH_ADMIN_REPORT MGMT\$ESA_WITH_GRANT_REPORT

Oracle Data Masking and Subsetting Pack

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

Features

The following table describes this management pack offered by Enterprise Manager:

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

Oracle Data Masking and Subsetting Pack also includes the following restricted-use licenses:

- Database Gateway for APPC
- Database Gateway for DRDA
- Database Gateway for Informix
- Database Gateway for SQLServer
- Database Gateway for Sybase
- Database Gateway for Teradata

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

Oracle Data Masking and Subsetting Pack must be licensed for the source database server, i.e., the database from which the data originates. There is no requirement to license the pack for the staging database server on which masking and subsetting operations are executed, or for copies made of the masked database.

Licensed Links

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

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

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

 **Note:**

1. Oracle Data Masking and Subsetting Pack incorporates the previous Oracle Data Masking Pack, Oracle Test Data Management Pack, and Oracle Data Masking and Subsetting Pack for non-Oracle Databases.
2. Application Data Modeling was previously called Data Discovery and Modeling.

Oracle Real Application Testing

Oracle Real Application Testing includes the following features:

- Database Replay
- SQL Performance Analyzer (SPA)
- Database Migration Planner
- Database Migration Workbench

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real Application Testing	Database Replay	<ul style="list-style-type: none"> The Oracle Real Application Testing license is required on both capture and replay systems for Database Replay and is charged by the total number of CPUs on those systems. Use of Capture and Replay ASH Analytics Reports, Compare Period ADDM Reports, and Replay Compare Period Reports also requires an Oracle Diagnostics Pack license. An Oracle Real Application Testing license permits you to access Database Replay functionality through Oracle Enterprise Manager, as well as through the following database server command-line APIs: <code>DBMS_WORKLOAD_CAPTURE</code> package and <code>DBMS_WORKLOAD_REPLAY</code> package. The use of the <code>DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT()</code> function also requires a license for Oracle Diagnostics Pack.
Oracle Real Application Testing	SQL Performance Analyzer (SPA)	<p>An Oracle Real Application Testing license permits you to access SQL Performance Analyzer functionality through Oracle Enterprise Manager, as well as through the following database server command-line API: <code>DBMS_SQLPA</code> package, which is part of the Oracle Real Application Testing option.</p>
Oracle Real Application Testing	Database Migration Planner	<ul style="list-style-type: none"> Database Migration Planner, introduced in Oracle Enterprise Manager Cloud Control 13c, provides a comprehensive end-to-end solution for managing database consolidation with a risk-free and accurate approach to consolidate by eliminating guess work by analyzing historical workload (DB, Host metrics). Provides a heatmap of predicted usage for the new configuration, both Oracle Cloud and on-premises environments. Use of the consolidation planning feature of Database Migration Planner requires an Oracle Diagnostics Pack license. An Oracle Real Application Testing license permits you to access the Database Migration Planner page in Oracle Enterprise Manager. To access Database Migration Planner: From the Enterprise menu, select Migration, then select Database Migration Planner. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Migration Planner.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real Application Testing	Database Migration Workbench	<ul style="list-style-type: none"> Database Migration Workbench, introduced in Oracle Enterprise Manager Cloud Control 13c, provides a data-driven and systematic approach to consolidate by eliminating guess work and human errors. Database Migration Workbench has three key capabilities: consolidation planning, database migration, and performance validation. Use of the consolidation planning feature of Database Migration Workbench requires an Oracle Diagnostics Pack license. An Oracle Real Application Testing license permits you to access the following links on the Database Migration Workbench page in Oracle Enterprise Manager. <ul style="list-style-type: none"> To access Database Migration Workbench, you can use one of the following options: <ul style="list-style-type: none"> From the Enterprise menu, select Migration, then select Database Migration Workbench. On the database target home page, select the Administration menu, then select Database Migration Workbench. <p>All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Migration Workbench.</p>

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 use the Configuration Management Pack features in Enterprise Manager Cloud Control as described in the following table:

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Feature Summary	<p>You are entitled to use the following features with a previously purchased Configuration Management Pack for Oracle Database License:</p> <ul style="list-style-type: none"> • Compliance Frameworks, Standards and extensibility to meet industry and regulatory compliance requirements. • Configuration Collection Extensibility to create custom configuration collections and extend current collections. • Configuration Compare: one-to-one, one-to-many, file sync. • Configuration History to report on configuration or relations changes during a specific time frame. • Configuration Instance Browser to view Configuration Items and associations associated with a target. • Configuration Save of configurations for reference, baselines or Gold Standards. • Configuration Search for Configuration Items on a specific target or across relationships. • Configuration Topology to view topology for a specified target and its dependencies along with other targets that are dependent on it. • Exadata Database Machine Configuration provides 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 of configuration file differences during a comparison. • Real-time configuration change detection and automation of compliance frameworks.
Configuration Management Pack for Oracle Database	Feature Summary (Continued)	<p>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.</p> <ul style="list-style-type: none"> • 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 is accessed 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.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Links	<p>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.</p> <p>You are entitled to use the following features with a previously purchased Configuration Management Pack for Oracle Database License:</p> <p>Configuration Instance Browser</p> <ul style="list-style-type: none"> From the Targets menu, select Databases, and select a Database. From the database home page, click 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. From the database home page, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Links (continued)	<p>File Synchronization</p> <ul style="list-style-type: none"> 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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>Configuration Collection Extensibility</p> <ul style="list-style-type: none"> From the Enterprise menu, select 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>Real-time Configuration Change Detection and Compliance</p> <ul style="list-style-type: none"> From the Enterprise menu, select 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>Configuration Topology</p> <ul style="list-style-type: none"> From the Target Home Page, click 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 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.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Reports	<p>The following reports are part of the Configuration Management Pack for Oracle Database. These 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.</p> <p>All database reports in each of these sections are licensed for this pack. To access the reports, go to the Enterprise Manager home page, and from the Enterprise menu, select Reports, and then select either Information Publisher Reports or BI Publisher Enterprise Reports.</p> <p>The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of the Configuration Management Pack for Oracle Database:</p> <ul style="list-style-type: none"> • Compliance • Configuration <p>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:</p> <ul style="list-style-type: none"> • Compliance • Configuration

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Configuration Views	<p>The following Configuration repository views are part of the Configuration Management Pack for Oracle Database:</p> <pre> MGMT\$CCS_DATA MGMT\$CCS_DATA_SOURCE MGMT\$CCS_DATA_SOURCE_VISIBLE MGMT\$CCS_DATA_VISIBLE MGMT\$CS_ASM_DISKGRP_SETTINGS MGMT\$CS_DB_CONTROL_FILE_COUNT MGMT\$CS_DB_INIT_PARAMS MGMT\$CS_DB_RBS_IN_SYSTEM MGMT\$CS_DB_REC_SEG_SETTINGS MGMT\$CS_DB_REC_TS_SETTINGS MGMT\$CS_DB_REC_USER_SETTINGS MGMT\$CS_DB_REDO_LOG_COUNT MGMT\$CS_DB_REDO_LOGS MGMT\$CS_DB_TABLESPACES MGMT\$CS_DB_TBSP_SEGSPACE_MGMT MGMT\$CS_FEATURE_USAGE MGMT\$CS_HA_INFO MGMT\$DB_CONTROLFILES MGMT\$DB_DATAFILES MGMT\$DB_DBNINSTANCEINFO MGMT\$DB_FEATUREUSAGE MGMT\$DB_INIT_PARAMS MGMT\$DB_LICENSE MGMT\$DB_OPTIONS MGMT\$DB_REDOLOGS MGMT\$DB_ROLLBACK_SEGS MGMT\$DB_SGA MGMT\$DB_TABLESPACES MGMT\$DB_TABLESPACES_ALL MGMT\$ECM_CURRENT_SNAPSHOTS MGMT\$ECM_VISIBLE_SNAPSHOTS MGMT\$HW_CPU_DETAILS MGMT\$HW_IO_DEVICES MGMT\$HW_NIC_BONDS MGMT\$J2EE_APPLICATION MGMT\$J2EEAPP_EJBCOMPONENT MGMT\$J2EEAPP_JRFWS MGMT\$J2EEAPP_JRFWSOPER MGMT\$J2EEAPP_JRFWSPOLICY MGMT\$J2EEAPP_JRFWSPORT MGMT\$J2EEAPP_WEBAPPCOMPONENT MGMT\$J2EEAPP_WSCONFIG </pre>

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Compliance Views	<p>The following Configuration repository views are part of the Configuration Management Pack for Oracle Database:</p> <pre> MGMT\$CCC_ALL_OBS_BUNDLES MGMT\$CCC_ALL_OBSERVATIONS MGMT\$CCC_DIAG_ANALYTICS MGMT\$CCC_DIAG_QUEUEBACKLOG MGMT\$COMPLIANCE_STANDARD MGMT\$COMPLIANCE_STANDARD_GROUP MGMT\$COMPLIANCE_STANDARD_RULE MGMT\$COMPOSITE_CS_EVAL_SUMMARY MGMT\$CS_EVAL_SUMMARY MGMT\$CS_GROUP_EVAL_SUMMARY MGMT\$CS_RULE_EVAL_SUMMARY MGMT\$CS_TARGET_ASSOC MGMT\$J2EEAPP_WSPORTCONFIG MGMT\$OS_INIT_SERVICES MGMT\$OS_KERNEL_PARAMS MGMT\$OS_LIMITS MGMT\$OS_MODULES MGMT\$OS_PROPERTIES MGMT\$SERVICETAG_INSTANCES MGMT\$SERVICETAG_REGISTRY MGMT\$UNPATCHABLE_DB_TARGETS MGMT\$WEBLOGIC_APPLICATIONS MGMT\$WEBLOGIC_CLUSTER MGMT\$WEBLOGIC_DOMAIN MGMT\$WEBLOGIC_EJBCOMPONENT MGMT\$WEBLOGIC_JDBCdatasource MGMT\$WEBLOGIC_JDBCMULTIDS MGMT\$WEBLOGIC_JMSCONNFACTORY MGMT\$WEBLOGIC_JMSQUEUE MGMT\$WEBLOGIC_JMSTOPIC MGMT\$WEBLOGIC_JOLTCONNPOOL MGMT\$WEBLOGIC_MACHINE MGMT\$WEBLOGIC_NETWORK_CHANNELS MGMT\$WEBLOGIC_NODEMANAGER MGMT\$WEBLOGIC_RAONFIG MGMT\$WEBLOGIC_RAOUTBOUNDCONFIG MGMT\$WEBLOGIC_RESOURCECONFIG MGMT\$WEBLOGIC_SERVER MGMT\$WEBLOGIC_STARTSHUTCLASSES MGMT\$WEBLOGIC_VIRTUALHOST MGMT\$WEBLOGIC_WEBAPPCOMPONENT MGMT\$WEBLOGIC_WORKMANAGER MGMT\$WEBLOGIC_WSONFIG </pre>

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Oracle Home Patching Views	<p>The following Oracle Home Patching repository views are part of the Configuration Management Pack for Oracle Database:</p> <pre> MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS MGMT\$APPL_PATCH_AND_PATCHSET MGMT\$CPF_ADVISORY_INFO MGMT\$CPF_HOMES_INFO MGMT\$CPF_PATCH_INFO MGMT\$EM_HOMES_PLATFORM MGMT\$HOMES_AFFECTED MGMT\$OH_CLONE_PROPERTIES MGMT\$OH_COMP_DEP_RULE MGMT\$OH_COMP_INST_TYPE MGMT\$OH_COMPONENT MGMT\$OH_CRS_NODES MGMT\$OH_DEP_HOMES MGMT\$OH_FILE MGMT\$OH_HOME_INFO MGMT\$OH_INSTALLED_TARGETS MGMT\$OH_INV_SUMMARY MGMT\$OH_PATCH MGMT\$OH_PATCHED_COMPONENT MGMT\$OH_PATCHED_FILE MGMT\$OH_PATCHSET MGMT\$OH_PATCH_FIXED_BUG MGMT\$OH_VERSIONED_PATCHV MGMT\$PATCH_ADVISORIES </pre>
Configuration Management Pack for Oracle Database	Licensed Security Views	<p>The following Security repository views are part of the Configuration Management Pack for Oracle Database:</p> <pre> MGMT\$ESA_ALL_PRIVS_REPORT MGMT\$ESA_ANY_DICT_REPORT MGMT\$ESA_ANY_PRIV_REPORT MGMT\$ESA_AUDIT_SYSTEM_REPORT MGMT\$ESA_BECOME_USER_REPORT MGMT\$ESA_CATALOG_REPORT MGMT\$ESA_CONN_PRIV_REPORT MGMT\$ESA_CREATE_PRIV_REPORT MGMT\$ESA_DBA_GROUP_REPORT MGMT\$ESA_DBA_ROLE_REPORT MGMT\$ESA_DIRECT_PRIV_REPORT MGMT\$ESA_EXMPT_ACCESS_REPORT MGMT\$ESA_KEY_OBJECTS_REPORT MGMT\$ESA_OH_OWNERSHIP_REPORT MGMT\$ESA_OH_PERMISSION_REPORT MGMT\$ESA_POWER_PRIV_REPORT MGMT\$ESA_PUB_PRIV_REPORT MGMT\$ESA_SYS_PUB_PKG_REPORT MGMT\$ESA_TABSP_OWNERS_REPORT MGMT\$ESA_TRC_AUD_PERM_REPORT MGMT\$ESA_WITH_ADMIN_REPORT MGMT\$ESA_WITH_GRANT_REPORT </pre>

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Client Configuration Views	<p>The following Client Configuration repository views are part of the Configuration Management Pack for Oracle Database:</p> <pre> MGMT\$CSA_COLLECTIONS MGMT\$CSA_FAILED MGMT\$CSA_HOST_COOKIES MGMT\$CSA_HOST_CPUS MGMT\$CSA_HOST_CUSTOM MGMT\$CSA_HOST_IOCARDS MGMT\$CSA_HOST_NICS MGMT\$CSA_HOST_OS_COMPONENTS MGMT\$CSA_HOST_OS_PROPERTIES MGMT\$CSA_HOST_OS_FILESYSTEMS MGMT\$CSA_HOST_RULES MGMT\$CSA_HOST_SW MGMT\$ECM_CONFIG_HISTORY MGMT\$ECM_CONFIG_HISTORY_KEY1 MGMT\$ECM_CONFIG_HISTORY_KEY2 MGMT\$ECM_CONFIG_HISTORY_KEY3 MGMT\$ECM_CONFIG_HISTORY_KEY4 MGMT\$ECM_CONFIG_HISTORY_KEY5 MGMT\$ECM_CONFIG_HISTORY_KEY6 MGMT\$HW_NIC MGMT\$OS_COMPONENTS MGMT\$OS_FS_MOUNT MGMT\$OS_HW_SUMMARY MGMT\$OS_HW_SUMMARY MGMT\$OS_PATCHES MGMT\$OS_SUMMARY MGMT\$SOFTWARE_COMPONENT_ONEOFF MGMT\$SOFTWARE_COMPONENTS MGMT\$SOFTWARE_COMP_PATCHSET MGMT\$SOFTWARE_DEPENDENCIES MGMT\$SOFTWARE_HOMES MGMT\$SOFTWARE_ONEOFF_PATCHES MGMT\$SOFTWARE_OTHERS MGMT\$SOFTWARE_PATCHES_IN_HOMES MGMT\$SOFTWARE_PATCHSETS </pre>

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 use the Change Management features in Enterprise Manager Cloud Control as described in the following table:

Management Pack	Type of Licensing Information	Licensing Information
Change Management Pack for Oracle Database	Feature Summary	<p>You are entitled to use the following features with a Change Management Pack for Oracle Database License:</p> <ul style="list-style-type: none"> • Schema Comparisons of database objects in two databases or baselines in Enterprise Manager or SQL developer. • Schema and Data Comparisons to automate the comparison of database schema and data across Databases or saved baselines. • Schema and Data Synchronization to propagate database objects and schemas with or without data, and update database object definitions. • Copy Database Objects with data, with a subset of data, or without data. • Real-time schema change detection to track schema changes in real time to identify unwanted or unplanned changes. <p>With the previous purchase of the Change Management Pack for Oracle Database, you also are entitled to the features described below. 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.</p> <ul style="list-style-type: none"> • Self Update is accessed from the Setup menu, select 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.

Management Pack	Type of Licensing Information	Licensing Information
Change Management Pack for Oracle Database	Licensed Links	<p>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.</p> <p>The following are the licensed pages, links, features, and functions that can be use with an existing Change Management Pack for Oracle Database License:</p> <p>Schema Comparison</p> <ul style="list-style-type: none"> From the Targets menu, select Databases, and then select a Database. From the database home page, click 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> <ul style="list-style-type: none"> From the Targets menu, select Databases, and then select a Database. From the database home page, click 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> <ul style="list-style-type: none"> From the Targets menu, select Databases, and then select a Database. From the database home page, click 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> <ul style="list-style-type: none"> From the Targets menu, select Databases, and then select a Database. From the database home page, click 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>Real-Time Schema Change Detection</p> <ul style="list-style-type: none"> From the Targets menu, select Databases, and then select a Database. From the database home page, click 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.

Management Pack	Type of Licensing Information	Licensing Information
Change Management Pack for Oracle Database	Licensed Reports	<p>The following reports are part of the Change Management Pack for Oracle Database.</p> <p>All the Oracle Database reports in each of these sections are licensed for this pack. To access the reports, go to the Enterprise Manager home page, and from the Enterprise menu, select Reports, and then select either Information Publisher Reports or BI Publisher Enterprise Reports.</p> <p>The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of the Change Management Pack for Oracle Database:</p> <ul style="list-style-type: none"> Database Change Management <p>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:</p> <ul style="list-style-type: none"> Database Change Management
Change Management Pack for Oracle Database	Licensed Parameters	<p>The <code>init.ora</code> parameter <code>ENABLE_DDL_LOGGING</code> is licensed as part of the Change Management Pack for Oracle Database when set to TRUE. The default is FALSE.</p>

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 use the Provisioning and Patch Automation features in Enterprise Manager Cloud Control as described in the following table:

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Feature Summary	<p>You are entitled to use the following features with a previously purchased Provisioning and Patch Automation Pack for Oracle Database license:</p> <ul style="list-style-type: none"> • Database Patching for end-to-end patch automation for Oracle Database and RAC. • Database Provisioning to provision databases and Oracle homes. • Database Upgrade existing Oracle Database. • Patch Recommendations of My Oracle Support Critical Patch Recommendations. • Patching Planning of My Oracle Support Patching Plans, patch Validation and Download. • Provisioning Procedures to deploy operating system and Oracle Database and Real Application Clusters. • RAC Scale Out and Scale Back to extend single instance databases to RAC. <p>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.</p> <ul style="list-style-type: none"> • The <code>oplan</code> Utility (The basic OPlan feature is free for everyone that has an Oracle Support contract. Use of OPlan metadata to drive orchestration logic from either Enterprise Manager or custom/third-party scripts is part of the Provisioning and Patch Automation Pack for Oracle Database.) • Migrate to ASM • Self Update

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Links	<p>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:</p> <p>Provisioning Procedures</p> <ul style="list-style-type: none"> • From the Enterprise menu, select 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. • From the Enterprise menu, select 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. • 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 Upgrade</p> <ul style="list-style-type: none"> • From the Enterprise menu, select Provisioning and Patching, then Procedure Library. All procedures that upgrade a Database are licensed with the Provisioning and Patch Automation Pack for Oracle Database. • From the Enterprise menu, select 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. • 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.

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Links (continued)	<p data-bbox="764 302 1162 329">Database Provisioning and Cloning</p> <ul data-bbox="764 338 1373 800" style="list-style-type: none"> <li data-bbox="764 338 1373 478">• From the Enterprise menu, select 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. <li data-bbox="764 487 1373 627">• From the Enterprise menu, select 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. <li data-bbox="764 636 1373 800">• 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 data-bbox="764 808 1114 835">RAC Scale Out and Scale Back</p> <ul data-bbox="764 844 1373 1276" style="list-style-type: none"> <li data-bbox="764 844 1373 984">• From the Enterprise menu, select 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. <li data-bbox="764 993 1373 1134">• From the Enterprise menu, select 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. <li data-bbox="764 1142 1373 1276">• 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 data-bbox="764 1285 976 1312">Database Patching</p> <ul data-bbox="764 1320 1373 1488" style="list-style-type: none"> <li data-bbox="764 1320 1373 1488">• 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 data-bbox="764 1497 946 1524">Offline Patching</p> <ul data-bbox="764 1533 1373 1698" style="list-style-type: none"> <li data-bbox="764 1533 1373 1698">• 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.

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Reports	<p>The following reports are part of the Provisioning and Patch Automation Pack for Oracle Database. These 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.</p> <p>All reports in each of these sections are licensed for this pack. To access the reports, go to the Enterprise Manager home page, and from the Enterprise menu, select Reports, and then select either Information Publisher Reports or BI Publisher Enterprise Reports.</p> <p>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:</p> <ul style="list-style-type: none"> • Deployment and Configuration <p>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:</p> <ul style="list-style-type: none"> • Deployment and Configuration
Provisioning and Patch Automation Pack for Oracle Database	Licensed CLI Verbs	<p>The following Enterprise Manager command line interface (CLI) verbs are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database:</p> <pre data-bbox="764 1083 1062 1736">clone_database confirm_instance create_database describe_instance describe_procedure_input get_executions get_instance_data get_instance_status get_instances get_procedure_types get_procedure_xml get_procedures get_retry_argument ignore_instance reschedule_instance resume_instance save_procedure stop_instance submit_procedure suspend_instance update_and_retry_step update_procedure_input upgrade_database</pre>

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Provisioning and Patching Views	<p>The following Provisioning and Patching repository views are part of the Provisioning and Patch Automation Pack for Oracle Database:</p> <p>Provisioning and Patching Views</p> <p>EM\$PROV_APPTYPES EM\$PROVAPP_METADATA EM\$PROVAPP_METADATA_VERSION EM\$PROVAPP_TAG_PROPERTIES EM\$PROVAPP_TAGS MGMT\$PA_RECOM_METRIC_SOURCE</p> <p>Patching Views</p> <p>GC\$EM_PC_PLAN_PATCHES GC\$EM_PC_PLAN_TARGETS GC\$EM_PC_PLANS GC_PC_EXECUTION_INSTANCES GC_PC_PLAN_ANALYSIS_RS GC_PC_PLAN_REMEDY GC_PC_PLAN_REMEDY_DETAILS GC_PC_PLAN_USERS GC_PC_TARGETS MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS MGMT\$ARU_FAMILY_PRODUCT_MAP MGMT\$ARU_LANGUAGES MGMT\$ARU_PATCH_RECOMMENDATIONS MGMT\$ARU_PLATFORMS MGMT\$ARU_PRODUCTS MGMT\$ARU_PRODUCT_RELEASE_MAP MGMT\$ARU_RELEASES MGMT\$ARU_TARGETS MGMT\$PA_AFFTED_HOST_GUID_OH MGMT\$PA_AFFTED_HOST_OH MGMT\$PA_AFFTED_TARGETS MGMT\$PA_FINAL_PATCH_LIST MGMT\$PA_TARGET_MAPPING MGMT\$PR_APPL_PATCHES_TO_OH MGMT\$PR_APPL_PATCHES_TO_OH_TGT MGMT\$PR_HOMES_AFFECTED_COUNT MGMT\$PR_HOME_INFO MGMT\$RECOM_METRIC_SOURCE</p>

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Oracle Home Patching Views	<p>The following Oracle Home Patching repository views are part of the Provisioning and Patch Automation Pack for Oracle Database:</p> <pre> MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS MGMT\$APPL_PATCH_AND_PATCHSET MGMT\$CPF_ADVISORY_INFO MGMT\$CPF_HOMES_INFO MGMT\$CPF_PATCH_INFO MGMT\$EM_HOMES_PLATFORM MGMT\$HOMES_AFFECTED MGMT\$OH_CLONE_PROPERTIES MGMT\$OH_COMPONENT MGMT\$OH_COMP_DEP_RULE MGMT\$OH_COMP_INST_TYPE MGMT\$OH_CRS_NODES MGMT\$OH_DEP_HOMES MGMT\$OH_FILE MGMT\$OH_HOME_INFO MGMT\$OH_INSTALLED_TARGETS MGMT\$OH_INV_SUMMARY MGMT\$OH_PATCH MGMT\$OH_PATCHED_COMPONENT MGMT\$OH_PATCHED_FILE MGMT\$OH_PATCHSET MGMT\$OH_PATCH_FIXED_BUG MGMT\$OH_VERSIONED_PATCHV MGMT\$PATCH_ADVISORIES </pre>

3

Oracle Middleware Enterprise Management

This chapter describes the licensed features and links about the management packs offered by Enterprise Manager in support of Oracle Middleware Enterprise Management:

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

WebLogic Server Management Pack Enterprise Edition

The WebLogic Server Management Pack Enterprise Edition offers a solution for managing Oracle Fusion Middleware and Oracle WebLogic Server. This pack provides capabilities that span the solution areas of application performance management, administration, service level management and lifecycle management that span many of these products and components.

 **Note:**

All Oracle Enterprise Manager Fusion Middleware Control 12c, Oracle Enterprise Manager Fusion Middleware Control 11g 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.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	General Features	<p>The following general features are available with this pack and, unless otherwise stated, are available from Oracle Enterprise Manager Cloud Control 13c:</p> <ul style="list-style-type: none">• Enterprise Messaging provides an enterprise-class messaging engine built into the application server for simplified application development and infrastructure management.• Java Mission Control is an intuitive Eclipse-based GUI for analyzing Java Flight Recorder data and is integrated into the WebLogic Diagnostic Framework to enable combined Oracle WebLogic Server and JVM event analysis• Java Flight Recorder captures JVM events in a circular buffer that can be persisted to disk for post-incident analysis.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Application Performance Management Overview	The WebLogic Server Management Pack Enterprise Edition delivers comprehensive management and modeling capabilities for pure Java EE and web service environments for applications running in Oracle WebLogic Server. By combining contextual drill-down modeling capabilities with extensive metrics that can span containers horizontally and 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.
WLS Management Pack EE	Application Performance Management Features	<p>Unless otherwise stated, the following features apply to Oracle WebLogic Server environment:</p> <ul style="list-style-type: none"> • "Always on" low overhead monitoring, notifications, and dashboards to diagnose past problems, receive early warnings of outages, see a single view of the status of all applications. • Blackouts and Notification Blackouts to suspend monitoring and notifications on targets to support scheduled maintenance periods. • Business Application Management to 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. • Composite Application Management provides full visibility across all members and tiers of a composite application. • Cross-tier trace with Oracle Database to view the impact of database problems on all associated applications and JVMs, and isolate problems between Java and the database • Differential heap analysis uses memory leak analysis in production, and simplify memory growth and leak analysis. • Exalogic Elastic Cloud Management to obtain summary views of the WebLogic Domains and Coherence Clusters that are on an Oracle Exalogic Elastic Cloud system. • Historical performance monitoring to track availability and performance data over time. • Interactive JVM transaction trace provides 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 to deploy JVM Diagnostics Agent without application server restarts or configuration changes. • Management Connectors provide help desk (ticketing) systems open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems. • Metric and Alert/Event History • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • 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.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Application Performance Management Features (Continued)	<ul style="list-style-type: none"> • Notifications to 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. • Request performance provides historical views that show the response times for end-user requests from the context of WebLogic Server and the underlying JVM. • Service-level objectives provides service-level objectives (SLOs) at any point within the architecture for indicators and alerts. • Trace in-flight transactions to view request performance problems in real time. Analyze time spent in each resource bottleneck and Java method. • JVM pool monitoring to monitor all JVMs of an application with uniform monitoring settings.
WLS Management Pack EE	Application Performance Management Features	<p>The following Application Performance Management features apply to the Oracle WebLogic Server environment:</p> <ul style="list-style-type: none"> • Log Viewer, Log Search, and Log Monitoring to 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). • Contextual visibility into Java EE and web service metrics. • Diagnostic Snapshot that preserves snapshots of both JVM monitoring and diagnostics data in correlation with the WebLogic Server log files. • Metrics visibility for any layer that generate customized dashboards and views automatically. • Middleware Diagnostics Advisor provides detailed advice and recommendations based on performance and configuration data for the entire middleware and database stack.
WLS Management Pack EE	Application Performance Management Feature Restrictions	<p>Within the WebLogic Server Management Pack Enterprise Edition product, licensing is restricted to Java EE and does not include SOA, BPEL, WebCenter, Portal, OSB, ESB, AIA, or Pageflow components.</p>
WLS Management Pack EE	Coherence Management Overview	<p>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.</p> <p>Note: The WebLogic Server Management Pack Enterprise Edition license covers Coherence Management when Coherence runs on the same CPU as WebLogic Server. If Oracle Coherence runs in different CPU from WebLogic Server, then you must license the Management Pack for Oracle Coherence.</p>

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Coherence Management Features	<p>Coherence Management within the WebLogic Server Management Pack Enterprise Edition includes the following features:</p> <ul style="list-style-type: none"> Automate deployment setup of the Coherence cluster with multiple nodes. Complete cluster visibility provides detailed metrics for all Coherence components. Configuration management to change run-time configuration parameters of multiple nodes, caches, and services from the central user interface console. Monitor multiple clusters from a single console.
WLS Management Pack EE	Lifecycle Management Overview	<p>The lifecycle management features of WebLogic Server Management Pack Enterprise Edition help administrators automate the processes required to manage the lifecycle of Oracle middleware software such as Oracle WebLogic Server. It eliminates manual and time-consuming tasks related to provisioning, patching, configuration management, and compliance management.</p>
WLS Management Pack EE	Lifecycle Management License to Provision	<p>License to provision the following Oracle products is included as part of WebLogic Server Management Pack Enterprise Edition (including both out-of-the-box and user-defined deployment procedures):</p> <ul style="list-style-type: none"> WebLogic Server Forms, Reports Oracle Traffic Directory Configuration Oracle Traffic Director Instance Oracle Coherence

 **Note:**

With the exception of WLS and Coherence components, not all have out-of-the-box provisioning supported. They can be provisioned via user defined procedures.

Provisioning for the following Fusion Middleware components is not included in the WebLogic Server Management Pack Enterprise Edition license:

- SOA Suite
- BPM Suite
- Oracle Service Bus
- AIA
- WebCenter Suite
- Oracle Identity Management
- Oracle Business Intelligence Enterprise Edition

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Lifecycle Management Features	<p>Unless otherwise stated, the following lifecycle management features apply to the Oracle WebLogic Server environment:</p> <ul style="list-style-type: none"> • Migrate a WebLogic Domain to a Domain Partition . • Export partition from one domain and import that partition into another domain. • Change Activity Plans provide the ability to plan, track in real time, and execute data-centerwide change activities. Activities include: PSU patch rollouts, and so on. • Compliance to provide compliance frameworks, standards, and extensibility to meet industry and regulatory compliance requirements. The following out-of-the-box standards are part of Lifecycle Management features: <ol style="list-style-type: none"> 1. Security Technical Implementation Guide (STIG Version 1.1) for Oracle WebLogic Server 12c. 2. Technical Implementation Guide (STIG Version 1.2) for Oracle WebLogic Server 12c. 3. Security Technical Implementation Guide (STIG Version 1) for Oracle HTTP Server 12c • Configuration Collection Extensibility to create custom configuration collections and extend current collections. • Configuration Compare of configurations, one-to-one, one-to-many. • Configuration History to report and notify on configuration or relations changes during a specific time frame. • Configuration Instance Browser to view configuration items and associations associated with a target. • Configuration Save for reference, baselines, or gold standards. • Configuration Search for configuration items on a specific target or across relationships. • Configuration Topology for a specified target and its dependencies along with other targets that are dependent on it. • Disaster Recovery through Site Guard to automate complete site failover of Oracle Fusion Middleware. • Notifications of configuration changes or differences. • Patching to provide end-to-end patch automation for Oracle WebLogic Server. • Provisioning Deployment Procedures to: <ul style="list-style-type: none"> <i>Clone</i> WebLogic/Middleware Home or WebLogic Domain from profiles stored in the software library. <i>Scale up/down or out</i> WebLogic Domain. <i>Deploy/redeploy/undeploy</i> Java EE applications to Oracle WebLogic Domain(s). <i>Perform first-time provisioning</i> of Middleware Home and/or WebLogic Domains from installation media stored in the software library. • User Defined Deployment Procedures (UDDP) to automate custom processes by creating a procedure from the start by inserting the required phases, steps, and variables.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Lifecycle Management Features (Continued)	<ul style="list-style-type: none"> • Patch Recommendations (<i>Only applicable to WebLogic Server</i>) for My Oracle Support security patch update recommendations. • Real-time configuration change detection and automation of compliance frameworks along with automated observation authorization using a Change Management Connector. • Routing Topology to understand relationships and health of a Fusion Middleware Farm/WebLogic Domain and their related targets. • Self Update to download and apply updates associated with Patching, Provisioning, and Compliance of Oracle WebLogic Server targets. • Synchronization of WebLogic Server Configuration Files (for example, <code>config.xml</code>) from Cloud Control if differences are detected between WebLogic Domains or WebLogic Servers during a configuration comparison operation
WLS Management Pack EE	Administration Overview	<p>The administration features of WebLogic Server Management Pack Enterprise Edition help administrators perform common administration operations in a WebLogic Server environment directly from Enterprise Manager Cloud Control; thereby, removing the need to drill down and log in to the Oracle Enterprise Manager Fusion Middleware Control console or to the Oracle WebLogic Server Administration Console.</p>

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Administration Features	<p>The following features apply to the Oracle WebLogic Server environment:</p> <ul style="list-style-type: none"> • Option to edit the Multitenant feature of Oracle WebLogic Server 12.2.1 and later is included in the WLS Management Pack EE. This includes being able to create, edit and delete resource groups, resource group templates, virtual targets and partitions • Change Center to lock a domain configuration and save changes. You lock a configuration prior to making changes to prevent other administrators from making changes during your edit session. View all changes that have been saved, view the server instances that must be restarted for configuration changes to take effect, release a lock, and activate or undo changes • System MBean Browser to view, configure, and use MBeans for a specific Oracle WebLogic Server or Application Deployment target. • Manage JDBC Data Sources to create, edit, delete, control, and test JDBC data sources. • Record configuration actions performed as a series of WebLogic Scripting Tool (WLST) commands. You can use WLST to replay the commands to help automate the task of configuring a domain. You can start, stop or view a recording. • Log Configuration for Oracle Fusion Middleware components for Oracle WebLogic Server, Application Deployment, SOA Infrastructure, Essbase Server, Directory Integration Platform Server, Oracle Virtual Directory, Oracle Reports Application, Oracle Reports Bridge, Oracle Reports Server, and Oracle Reports Tools targets. • Selective Tracing for Oracle Fusion Middleware from Enterprise Manager Cloud Control. Enables administrators to gain more fine-grained logging data but limit the data such that it applies to a specific application name, and other specific attributes of a request (for example, user name, client host, and/or web service port). • WebLogic Cluster Administration to view and edit settings for the WebLogic Cluster. • WebLogic Domain Administration to view and edit settings for the WebLogic Domain. • WebLogic Server Administration to view and edit settings for the WebLogic Server. • Machine Administration to view and edit settings for a machine. • Server Template Administration to view and edit settings for a Server Template (this feature is applicable to WebLogic Server version 12c and not applicable to earlier versions). • Deployed Application administration to edit settings for deployed applications (<i>This feature is applicable to WLS 12.2.1 and later. Not applicable to earlier versions</i>)

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle Traffic Director Overview	The Oracle Traffic Director (OTD) features within the WebLogic Server Management Pack Enterprise Edition provide comprehensive monitoring and management capabilities for Oracle Traffic Director. The features provide complete cluster visibility by supplying detailed metrics of various cluster artifacts and their inter-dependencies. You can monitor more than one Oracle Traffic Director from a single console.
WLS Management Pack EE	Oracle Traffic Director Features	<p>Oracle Traffic Director within the WebLogic Server Management Pack Enterprise Edition includes the following features:</p> <ul style="list-style-type: none"> • Dashboards for Oracle Traffic Director. • Complete cluster visibility of detailed metrics for all Oracle Traffic Director configuration and cluster. • Configuration management to change run-time configuration parameters of multiple nodes, caches, and services from the central user interface console. • Monitor multiple Oracle Traffic Director instances from a single console. • Refresh Oracle Traffic Director targets. • Oracle Traffic Director (OTD) monitoring to provide trusted partition/vCPU licensing report.
WLS Management Pack EE	Licensed Links Overview	<p>To use any of the features described above, you must purchase licenses to the WebLogic Server Management Pack Enterprise Edition. The Licensed Links content below 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.</p> <p>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.</p> <p>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.</p>

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle Fusion Middleware Target Types	<p>In general, the Licensed Links content below apply to the following Oracle Fusion Middleware target types:</p> <ul style="list-style-type: none"> • Oracle WebLogic Node Manager • Oracle WebLogic Domain Partition • Partition Application Deployment • Oracle Coherence Domain Partition Cache • Oracle Coherence Cache • Oracle Coherence Cluster • Oracle Coherence Node • Oracle Fusion Middleware Farm • Oracle WebLogic Domain • Oracle WebLogic Cluster • Oracle WebLogic Server • Business Application • SMPP Driver • Clustered Application Deployment • Domain Application Deployment • Application Deployment • Oracle HTTP Server (installed either collocated with a WebLogic Domain or as a standalone domain) • Oracle Coherence • VoiceXML Driver • Oracle Forms Services • Oracle Portal • Oracle Reports Application • XMPP Driver • Oracle Reports Bridge • Oracle Reports Server • Oracle Reports Tools • Oracle User Messaging Service • User Messaging Email Driver • Java Virtual Machine • Java Virtual Machine Pool • Exalogic Elastic Cloud

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed Links Outside of Target-Specific Pages	<p>The following are the licensed pages and links for the WebLogic Server Management Pack Enterprise Edition outside of target-specific pages:</p> <p>Application Performance Management</p> <ul style="list-style-type: none"> From the Setup menu, select Middleware Management, and then select Engines And Agents. On the Setup page, the ability to register and manage Application Performance Management Engines and other items are licensable as part of the WebLogic Server Management Pack Enterprise Edition, SOA Management Enterprise Edition, or Real User Experience Insight depending on the type of engine that is added. <p>Compliance</p> <ul style="list-style-type: none"> From the Enterprise menu, select 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. <p>Self Update</p> <ul style="list-style-type: none"> From Setup menu, select Extensibility, and then select 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.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Configuration Licensed Links Outside of Target-Specific Pages	<p>The following are the Configuration licensed pages and links for the WebLogic Server Management Pack Enterprise Edition outside of target-specific pages:</p> <p>Configuration Extensions</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration, then Configuration Extensions. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the WebLogic Server Management Pack Enterprise Edition. <p>Comparison & Drift Management</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration, then Configuration and Drift Management. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the WebLogic Server Management Pack Enterprise Edition. <p>Configuration History</p> <ul style="list-style-type: none"> From the Enterprise menu, select 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. <p>Configuration Save</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration, then Saved. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the WebLogic Server Management Pack Enterprise Edition. <p>Configuration Search</p> <ul style="list-style-type: none"> From the Enterprise menu, select 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. <p>Change Activity Plans</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration. The Change Activity Plans and My Tasks items are licensable as part of the WebLogic Server Management Pack Enterprise Edition.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Provisioning and Patching Licensed Links Outside of Target-Specific Pages	<p>The following are the Provisioning and Patching licensed pages and links for the WebLogic Server Management Pack Enterprise Edition outside of target-specific pages:</p> <p>Offline Patching</p> <ul style="list-style-type: none"> From the Setup menu, select Provisioning and Patching, and then select Offline Patching. From the Online and Offline Setting tab, the Connection, Offline setting is licensed with the WebLogic Server Management Pack Enterprise Edition. <p>User Defined Deployment Procedures (UDDP)</p> <ul style="list-style-type: none"> From the Enterprise menu, select Provisioning and Patching, and then select Procedure Library. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of the WebLogic Server Management Pack Enterprise Edition. <p>WebLogic Server Patching</p> <ul style="list-style-type: none"> From the Enterprise menu, select Provisioning and Patching, and then select Patches and Updates. From this page, the Patch Recommendations and Patch Plans regions and their content/links related to WebLogic Server are licensed as part of the WebLogic Server Management Pack Enterprise Edition. <p>Middleware Provisioning</p> <ul style="list-style-type: none"> From the Enterprise menu, select Provisioning and Patching, and then select Procedure Library. The following predefined procedures are licensed with the WebLogic Server Management Pack Enterprise Edition: <ul style="list-style-type: none"> Provision Middleware Scale up/Scale Out Middleware Deploy/Undeploy Java EE Applications Coherence Node Provisioning 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: <ul style="list-style-type: none"> SOA Artifacts Provisioning Deploying SOA Composite BPEL Process Provisioning Oracle Service Bus Resource Provisioning deployment procedures (these are licensable through the SOA Management Pack Enterprise Edition). Creating Business Intelligence Profile and Business Intelligence Cloning procedures are not part of the WLS Management Pack EE, but rather licensable through the Business Intelligence Management Pack. On the WebLogic Domain target home page from the WebLogic Domain menu, select 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, Deploy SOA Composite, WebCenter Artifacts, and Deploy WebCenter Application (these are licensable

Management Pack	Type of Licensing Information	Licensing Information
		through the SOA Management Pack Enterprise Edition and Management Pack for WebCenter).

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Administration Licensed Links	<p>The following list of links and navigation to them correspond with the administration features for Oracle WebLogic Server and are licensed as part of the WebLogic Server Management Pack Enterprise Edition.</p> <ul style="list-style-type: none">• Note: You must first log in to the domain before accessing these features. If you have not saved your preferred credentials for accessing these administration features, then you will be prompted to log in to the domain. From the log in page, you have the option to save the credentials as <i>preferred credentials</i>, if they are not already saved. With preferred credentials, you are automatically taken to the page with no log in required. <p>Selective Tracing feature</p> <ul style="list-style-type: none">• From the Targets menu, select Middleware, then select a domain target link to go to the Domain Home page• From the Domain menu, select Logs, and finally Selective Tracing. <p>Configuration of Log File Settings feature</p> <ul style="list-style-type: none">• From the Targets menu, select Middleware, then select a WebLogic Server target link to go to the WebLogic Server Home page• From the WebLogic Server menu, select Logs, and then select Log Configuration. <p>Change Center</p> <ul style="list-style-type: none">• From the Targets menu, select Middleware, then select a domain target link to go to the Domain Home page, assuming you have logged in to the domain (for example, through preferred credentials) and have attempted to access an administration operation.• On the Domain Home page from the Change Center region in the upper left-hand corner, select Change Center. All links in the Changes drop-down menu are licensed with WebLogic Server Management Pack Enterprise Edition. <p>System MBean Browser</p> <ul style="list-style-type: none">• From the Targets menu, select Middleware, then select a domain target link to go to the Domain Home page.• On the Domain Home page from the Domain menu, select System MBean Browser. <p>Manage JDBC Data Sources</p> <ul style="list-style-type: none">• From the Targets menu, select Middleware, then select a domain target link to go to the Domain Home page.• On the Domain Home page from the Domain menu, select JDBC Data Sources. <p>Record configuration actions</p> <ul style="list-style-type: none">• From the Targets menu, select Middleware, then select a domain target link to go to the Domain Home page, assuming you have logged in to the domain (for example, through preferred credentials) and have attempted to access an administration operation.• On the Domain Home page from the upper left-hand corner near the Change Center drop-down menu, select Recording. All links in the Recording drop-down menu are licensed with WebLogic Server Management Pack Enterprise Edition.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Administration Licensed Links (Continued)	<p>Server Templates Administration and Machines Administration</p> <ul style="list-style-type: none"> From the Targets menu, select Environment. All submenus, links and pages accessible from there are licensed with the WebLogic Server Management Pack Enterprise Edition. From the Targets menu, select Administration. All submenus, links and pages accessible from there are licensed with the WebLogic Server Management Pack Enterprise Edition.
WLS Management Pack EE	WebLogic Cluster and Server Administration Licensed Links	<p>The following list of WebLogic Cluster and Server Administration links and navigation to them correspond with the administration features for Oracle WebLogic Server and are licensed as part of the WebLogic Server Management Pack Enterprise Edition:</p> <p>WebLogic Cluster Administration</p> <ul style="list-style-type: none"> From the Targets menu, select Middleware, then select a cluster target link to go to the Cluster Home page. On the Cluster Home page from the Cluster menu, make a selection: <ul style="list-style-type: none"> Administration Logs JDBC Data Sources Routing Topology System MBean Browser <p>WebLogic Server Administration</p> <ul style="list-style-type: none"> From the Targets menu, select Middleware, then select a WebLogic Server target link to go to the WebLogic Server Home page. From the WebLogic Server Home page from the WebLogic Server menu, select Administration. <i>Note: Under the Administration submenu, the Start/Stop menu item is not licensed under WebLogic Server Management Pack Enterprise Edition.</i>

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	WebLogic Server Versions 9, 10, and 12 Licensed Links	<p>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 13c, and are licensed as part of the WebLogic Server Management Pack Enterprise Edition:</p> <p>Application Deployment page</p> <ul style="list-style-type: none"> From the Targets menu, select Middleware. Drill down to a WebLogic Domain home page, then click an Application Deployment target. All links and menu items on this page are licensed. <p>Clustered Application Deployment page</p> <ul style="list-style-type: none"> From the Targets menu, select Middleware. Drill down to a WebLogic Domain home page, then click a Clustered Application Deployment target. All links and menu items on this page are licensed. <p>Middleware-related target pages</p> <ul style="list-style-type: none"> From the Targets menu, select Middleware. Click links in the Name column to be taken to a target home page. (Note: target home pages can be accessed through 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.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle HTTP Server General Monitoring Licensed Links	<p>The following list of links and navigation to them correspond with managing Oracle HTTP Server in Oracle Enterprise Manager Cloud Control 13c and are licensed as part of the WebLogic Server Management Pack Enterprise Edition.</p> <p>Oracle HTTP Server Home page</p> <ul style="list-style-type: none"> From the Targets menu, select Middleware, and then select standalone Oracle HTTP Server home page. On this page, all links are licensed. <p>The following licensed links are accessed from the Oracle HTTP Server home page:</p> <p>Create Blackout</p> <ul style="list-style-type: none"> Select Create Blackout. All links, menu items, tabs, and sections on this page are licensed. Select the Target menu, then select Control, and finally select Create Blackout. All links, menu items, tabs, and sections on this page are licensed <p>End Blackout</p> <ul style="list-style-type: none"> Select End Blackout. All links, menu items, tabs, and sections on this page are licensed. Select the Target menu, then Control, and finally End Blackout. All links, menu items, tabs, and sections on this page are licensed <p>Performance Summary</p> <ul style="list-style-type: none"> Select the Target menu, then Monitoring, and finally Performance Summary. All links, menu items, tabs, and sections on this page are licensed <p>All Metrics</p> <ul style="list-style-type: none"> Select the Target menu, then Monitoring, and finally All Metrics. All links, menu items, tabs, and sections on this page are licensed <p>Status History</p> <ul style="list-style-type: none"> Select the Target menu, then Monitoring, and finally Status History. All links, menu items, tabs, and sections on this page are licensed <p>Alert History</p> <ul style="list-style-type: none"> Select the Target menu, then Monitoring, and finally Alert History. All links, menu items, tabs, and sections on this page are licensed <p>Blackouts</p> <ul style="list-style-type: none"> Select the Target menu, then Monitoring, and finally Blackouts. All links, menu items, tabs, and sections on this page are licensed <p>Log Viewer</p> <ul style="list-style-type: none"> Select the Target menu, then Monitoring, and finally View Log Messages. All links, menu items, tabs, and sections on this page are licensed

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle HTTP Server Configuration Management Licensed Links	<p>The following list of links and navigation to them correspond with managing Oracle HTTP Server in Oracle Enterprise Manager Cloud Control 13c and are licensed as part of the WebLogic Server Management Pack Enterprise Edition and are accessed from the Oracle HTTP Server home page:</p> <p>Last Collected</p> <ul style="list-style-type: none"> Select the Target menu, then Configuration, and finally Last Collected. All links, menu items, tabs, and sections on this page are licensed <p>Compare</p> <ul style="list-style-type: none"> Select the Target menu, then Configuration, and finally Compare. All links, menu items, tabs, and sections on this page are licensed <p>Search</p> <ul style="list-style-type: none"> Select the Target menu, then Configuration, and finally Search. All links, menu items, tabs, and sections on this page are licensed <p>History</p> <ul style="list-style-type: none"> Select the Target menu, then Configuration, and finally History. All links, menu items, tabs, and sections on this page are licensed <p>Saved</p> <ul style="list-style-type: none"> Select the Target menu, then Configuration, and finally Saved. All links, menu items, tabs, and sections on this page are licensed <p>Topology</p> <ul style="list-style-type: none"> Select the Target menu, then Configuration, and finally Topology. All links, menu items, tabs, and sections on this page are licensed
WLS Management Pack EE	Oracle HTTP Server Compliance Management Licensed Links	<p>The following list of links and navigation to them correspond with managing Oracle HTTP Server in Oracle Enterprise Manager Cloud Control 13c and are licensed as part of the WebLogic Server Management Pack Enterprise Edition and are accessed from the Oracle HTTP Server home page:</p> <p>Results</p> <ul style="list-style-type: none"> Select the Target menu, then Compliance, and finally Results. All links, menu items, tabs, and sections on this page are licensed <p>Standard Associations</p> <ul style="list-style-type: none"> Select the Target menu, then Compliance, and finally Standard Associations. All links, menu items, tabs, and sections on this page are licensed
WLS Management Pack EE	Service Level Management Licensed Links	See Enterprise Manager Cloud Control Service Level Management in End-User Monitoring .
WLS Management Pack EE	Coherence Management Licensed Links	See the Licensed Links of the Management Pack for Oracle Coherence section for the Coherence Management links.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Business Application Licensed Links	<p>The following links are licensable for Business Application targets:</p> <p>Real User Experience (RUEI) Data</p> <ul style="list-style-type: none"> From the Targets menu, select Business Application. Select a Business Application target from the list. On the Business Application home page from the Business Application target menu, select Real User Experience (RUEI), and then select RUEI data. All links in the page are licensed by the Real User Experience Insight pack. <p>RUEI Session Diagnostics</p> <ul style="list-style-type: none"> From the Targets menu, select Business Application. Select a Business Application target from the list. On the Business Application home page from the Business Application target menu, select Real User Experience (RUEI), and finally RUEI Session Diagnostics. All links in the page are licensed by the Real User Experience Insight pack. <p>RUEI Metrics</p> <ul style="list-style-type: none"> From the Targets menu, select Business Application. Select a Business Application target from the list. On the Business Application home page from the Business Application target menu, then select Real User Experience (RUEI), and finally RUEI Session Diagnostics. All links in the page are licensed by the Real User Experience Insight pack. <p>From the Business Application menu, access is available to the home page. There are licensable links on regions that could be part of the home page under Real User Experience Insight. These licensable links could include the following regions:</p> <p>All functions of the following regions are licensed by Real User Experience Insight.</p> <ul style="list-style-type: none"> RUEI - Key Performance Indicators (KPI) RUEI - Top Executed User Requests RUEI - Top user and application Violations RUEI - Top Users RUEI - User Flows Service Test Status SLA Dashboard SLA Summary Region

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Exalogic Elastic Cloud Management Licensed Links	<p>The following links are accessed from the Exalogic Elastic Cloud target home page and are licensable for Exalogic Elastic Cloud Management. To access the Exalogic Elastic Cloud home page, select Exalogic from the Targets menu</p> <p>WebLogic Domains Summary page</p> <ul style="list-style-type: none"> From the Exalogic Elastic Cloud target menu, select WebLogic Domains, and then select Summary. All links in the page are licensed by the WebLogic Server Management Pack Enterprise Edition. <p>WebLogic Domains Members page</p> <ul style="list-style-type: none"> From the Exalogic Elastic Cloud target menu, select WebLogic Domains, and then select Members. All links in the page are licensed by the WebLogic Server Management Pack Enterprise Edition. <p>Coherence Clusters page</p> <ul style="list-style-type: none"> From the Exalogic Elastic Cloud target menu, select Coherence Clusters. All links in the page are licensed by the WebLogic Server Management Pack Enterprise Edition.
WLS Management Pack EE	Licensed Blackout Repository Views	<p>The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:</p> <p>MGMT\$BLACKOUT_HISTORY MGMT\$BLACKOUTS</p>
WLS Management Pack EE	Licensed Inventory Repository Reviews	<p>The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:</p> <p>MGMT\$METRIC_CATEGORIES MGMT\$GROUP_FLAT_MEMBERSHIPS</p>
WLS Management Pack EE	Licensed Monitoring Repository Reviews	<p>The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:</p> <p>MGMT\$ALERT_ANNOTATIONS MGMT\$ALERT_NOTIF_LOG MGMT\$TARGET_METRIC_COLLECTIONS MGMT\$TARGET_METRIC_SETTINGS MGMT\$AVAILABILITY_CURRENT MGMT\$AVAILABILITY_HISTORY MGMT\$ALERT_CURRENT MGMT\$ALERT_HISTORY MGMT\$METRIC_DETAILS MGMT\$METRIC_CURRENT MGMT\$METRIC_HOURLY MGMT\$METRIC_DAILY</p>

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed Compliance Repository Reviews	<p>The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:</p> <pre> MGMT\$COMPLIANCE_STANDARD_RULE MGMT\$COMPLIANCE_STANDARD MGMT\$COMPLIANCE_STANDARD_GROUP MGMT\$CS_EVAL_SUMMARY MGMT\$COMPOSITE_CS_EVAL_SUMMARY MGMT\$CS_RULE_EVAL_SUMMARY MGMT\$CS_GROUP_EVAL_SUMMARY MGMT\$CS_TARGET_ASSOC MGMT\$CCC_ALL_OBSERVATIONS MGMT\$CCC_ALL_OBS_BUNDLES MGMT\$CCC_DIAG_ANALYTICS MGMT\$CCC_DIAG_QUEUEBACKLOG </pre>
WLS Management Pack EE	Licensed Configuration Repository Reviews	<p>The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:</p> <pre> MGMT\$J2EE_APPLICATION MGMT\$J2EEAPP_EJBCOMPONENT MGMT\$J2EEAPP_JRFWS MGMT\$J2EEAPP_JRFWSOPER MGMT\$J2EEAPP_JRFWSPOLICY MGMT\$J2EEAPP_JRFWSPORT MGMT\$J2EEAPP_WEBAPPCOMPONENT MGMT\$J2EEAPP_WSCONFIG MGMT\$J2EEAPP_WSPORTCONFIG MGMT\$WEBLOGIC_APPLICATIONS MGMT\$WEBLOGIC_CLUSTER MGMT\$WEBLOGIC_DOMAIN MGMT\$WEBLOGIC_EJBCOMPONENT MGMT\$WEBLOGIC_JDBCdatasource MGMT\$WEBLOGIC_JDBCMULTIDS MGMT\$WEBLOGIC_JMSCONNFACTORY MGMT\$WEBLOGIC_JMSQUEUE MGMT\$WEBLOGIC_JMSTOPIC MGMT\$WEBLOGIC_JOLTCONNPOOL MGMT\$WEBLOGIC_MACHINE MGMT\$WEBLOGIC_NETWORK_CHANNELS MGMT\$WEBLOGIC_NODEMANAGER MGMT\$WEBLOGIC_OPSSYSPROP MGMT\$WEBLOGIC_RAONFIG MGMT\$WEBLOGIC_RAOUTBOUNDCONFIG MGMT\$WEBLOGIC_RESOURCECONFIG MGMT\$WEBLOGIC_SERVER MGMT\$WEBLOGIC_STARTSHUTCLASSES MGMT\$WEBLOGIC_VIRTUALHOST MGMT\$WEBLOGIC_WEBAPPCOMPONENT MGMT\$WEBLOGIC_WORKMANAGER MGMT\$WEBLOGIC_WSCONFIG </pre>

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed Oracle HTTP Server (OHS) Configuration Repository Reviews	<p>The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:</p> <p>MGMT\$OHS_CIPHERSUITES MGMT\$OHS_CONFIGFILES MGMT\$OHS_GENERAL MGMT\$OHS_LISTENADDRESSES MGMT\$OHS_PERFRELATED MGMT\$OHS_VIRTUALHOSTS MGMT\$WEBCACHE_TO_OHS_ROUTING MGMT\$EMAS_OHS_COMPRESSION MGMT\$EMAS_OHS_FUSAPPS MGMT\$EMAS_OHS_GENERAL MGMT\$EMAS_OHS_PERFRELATED MGMT\$EMAS_OHS_ROUTINGGENERAL MGMT\$EMAS_OHS_ROUTINGLOCATIONS</p>
WLS Management Pack EE	Licensed Reports	<p>The following reports are part of the WebLogic Server Management Pack Enterprise Edition:</p> <ul style="list-style-type: none"> <li data-bbox="672 848 1138 875">• WebLogic Server Health Check Report.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed CLI Verbs	<p>The following Enterprise Manager command-line interface (CLI) verbs are licensed as part of the WebLogic Server Management Pack Enterprise Edition:</p> <pre>add_beacon add_siteguard_script_hosts add_swlib_storage_location apply_template_tests assign_test_to_target clone_as_home create_diag_snapshot create_fmw_domain_profile create_fmw_home_profile create_inst_media_profile create_jeeappcomp create_operation_plan create_patch_plan create_siteguard_configuration create_siteguard_credential_association create_siteguard_script create_swlib_entity create_swlib_folder delete_operation_plan delete_siteguard_configuration delete_siteguard_credential_association delete_siteguard_script delete_siteguard_script_hosts delete_test describe_patch_plan_input disable_test enable_test extend_as_home extract_template get_connection_mode get_instances get_operation_plan_details get_operation_plans get_patch_plan_data get_procedure_types get_procedure_xml get_procedures get_siteguard_configuration get_siteguard_credential_association get_siteguard_script_hosts get_siteguard_scripts list_aru_languages list_aru_platforms list_aru_products list_aru_releases list_patch_plans list_swlib_entities list_swlib_entity_subtypes list_swlib_entity_types list_swlib_folders list_swlib_storage_locations provision</pre>

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed CLI Verbs (continued)	<pre>refer_swlib_entity_files reimport_swlib_metadata remove_beacon remove_swlib_storage_location run_prechecks search_patches set_availability set_connection_mode set_key_beacons_and_tests set_patch_plan_data show_patch_plan submit_operation_plan submit_patch_plan submit_procedure sync_beacon update_operation_plan update_siteguard_configuration update_siteguard_credential_association update_siteguard_script update_swlib_entity upload_jeeappcomp_file upload_swlib_entity_files</pre>
WLS Management Pack EE	Restricted-Use License	<p>WebLogic Server Management Pack Enterprise Edition includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.</p> <p>See Enterprise Manager Cloud Control Service Level Management in End-User Monitoring for more information.</p>

SOA Management Pack Enterprise Edition

This pack delivers comprehensive management and modeling capabilities for a Service-Oriented Architecture (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.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
SOA Management Pack EE	Supported Cloud Control SOA Targets	<p>This pack supports the following Cloud Control SOA targets:</p> <ul style="list-style-type: none"> • Business Process Execution Language (BPEL) • Oracle Service Bus (service-bus) • Oracle Service Bus Cluster • Oracle SOA Suite Infrastructure (soa-infra) • Oracle SOA Suite Infrastructure Cluster • Oracle SOA Suite SOA Composites • Scheduling Service (ESS)

Management Pack	Type of Licensing Information	Licensing Information
SOA Management Pack EE	Cloud Control SOA Target Features	<p>The SOA Management Pack Enterprise Edition Cloud Control targets include the following features:</p> <ul style="list-style-type: none"> • Error Hospital • Download Composite • Heap Map • Adapter metrics provide throughput and error metrics for different adapters in graphical format. • Blackouts suspend monitoring on targets to support scheduled maintenance periods. • Business-IT alignment provides integration for business KPIs and system metrics in one system for correlation and trending. • Centralized management console to monitor and manage all enterprise components from a central location. • Change Activity Plans provide the ability to plan, track in real time, and execute data-centerwide change activities. Activities include: PSU patch rollouts, database consolidation to Exadata, and so on. • Configuration management information collection for the BPEL Process Manager server/domains/processes and Oracle Service Bus. • Deployment automation of BPEL suitcases, OSB resources, OSB Domains, SOA artifacts, SOA domains, and SOA composites. • Discovery and service modeling of Oracle BPEL processes, Oracle Service Bus-based business and proxy services. Provide automated system modeling capabilities for the SOA infrastructure. • Ability to download SOA composite. • IWS report integration. • End-to-end transaction tracing across distributed application components, and monitor and measure performance characteristics of each component. • Historical analysis and reporting of collected metric and configuration data in a central repository. • Infrastructure management to monitor availability and performance of SOA infrastructure components. • Management Connectors for help desk (ticketing) systems to open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems. • Metric and Alert/Event History • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • 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.

Management Pack	Type of Licensing Information	Licensing Information
SOA Management Pack EE	Cloud Control SOA Target Features (Continued)	<ul style="list-style-type: none"> • Notifications to 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. • Run-time governance do 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 to 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

Management Pack	Type of Licensing Information	Licensing Information
SOA Management Pack EE	Cloud Control SOA Target Licensed Links	<p>The following links are licensable for Cloud Control SOA targets:</p> <p>BPEL Process Manager target pages</p> <ul style="list-style-type: none"> From the Targets menu, select Oracle BPEL Process Manager, then click Go. A list of BPEL Process Manager targets appears. All target pages linked from this list are licensed. <p>Process List page</p> <ul style="list-style-type: none"> On the Oracle BPEL Process Manager page, select Processes 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. <p>Oracle BPEL Process page</p> <ul style="list-style-type: none"> On the Oracle BPEL Process Manager page, click 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. <p>Oracle Service Bus targets</p> <ul style="list-style-type: none"> From the Targets menu, select Oracle Service Bus, then click Go. A list of Oracle Service Bus targets appears. All target pages linked from this list are licensed. <p>Save Test button</p> <ul style="list-style-type: none"> On the Oracle Service Bus target page, from the Web Services selection above, select the Test Web Services menu item. This button is licensed. <p>Blackouts</p> <ul style="list-style-type: none"> From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, this item under the Control menu is licensed. <p>Change Activity Plans</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration. The Change Activity Plans and My Tasks items are licensable as part of the SOA Management Pack Enterprise Edition. <p>Faults tab</p> <ul style="list-style-type: none"> From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, select the Service Engine menu item, then the BPEL Engine submenu item. On the BPEL Engine page, this tab is licensed. <p>Monitoring, Provisioning, and Configuration menus</p> <ul style="list-style-type: none"> From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, these menus and all sub-items are licensed. <p>Faults and Rejected Messages, Deployed Composites, and Dehydration Diagnostics tabs</p> <ul style="list-style-type: none"> From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, these tabs are licensed.

Management Pack	Type of Licensing Information	Licensing Information
SOA Management Pack EE	Cloud Control SOA Target Licensed Links (Continued)	<p>Deployment Procedure Links</p> <ul style="list-style-type: none"> On the Oracle Service Bus target page, from the Deployments tab, click the Deployment Procedures link. These deployment procedure links are licensed: SOA Artifacts Provisioning, Deploy SOA Composites, and BPEL Process Provisioning <p>Web Services Selections</p> <ul style="list-style-type: none"> On the Oracle Service Bus target page, from the WebLogic Domain menu, select Web Services. These selections are licensed: Policy Enforcement Dashboard, Registered Services, and Saved Tests <p>SOA Home</p> <ul style="list-style-type: none"> On the Oracle Service Bus target page, click the Enterprise Manager Cloud Control Middleware tab. These links are licensed.
SOA Management Pack EE	Licensed Reports	<p>All reports associated with the following target types are part of the SOA Management Pack Enterprise Edition:</p> <ul style="list-style-type: none"> Oracle BPEL Process Manager Oracle Service Bus SOA Composite SOA Infrastructure SOA Partition
SOA Management Pack EE	Licensed CLI Verbs	<p>The following Enterprise Manager CLI verbs are licensed as part of the SOA Management Pack Enterprise Edition:</p> <pre>get_instances get_instance_data_xml get_procedures get_procedure_types get_procedure_xml submit_procedure</pre>

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 following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Basic Functionality	<p>The Management Pack for WebCenter includes:</p> <ul style="list-style-type: none"> Availability and monitoring of all components. Basic provisioning. Configuration management. Performance monitoring of all components. Historical analysis and reporting. Thresholds and events. Webcenter Portal Performance Pack.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Feature Summary	<p>The Management Pack for WebCenter includes the following features:</p> <ul style="list-style-type: none">• Quickly identify and address critical performance bottlenecks in your application. WebCenter Portal Performance Pack is pre-configured to instrument the main concerning areas for Oracle WebCenter Portal:<ul style="list-style-type: none">– Makes it easy for you to identify slow requests.– Drill down to specific hot paths and methods.– Doesn't overwhelm with too much data; instead provides with only the most critical information.– Aggregates data in different ways, which makes it easy to spot problem areas.– Provides hints for optimization opportunity.• Business Application Management provides an intuitive representation of the relationship between your applications and the end user experience and the underlying IT infrastructure.• 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.• Contextual visibility into Portal, Web Services, and J2EE metrics• Infrastructure management to monitor availability and performance of WebCenter infrastructure components.• Metrics visibility at any layer to automatically generate customized dashboards and views in the application through graphs and tables.• Historical analysis and reporting• Metric and Alert/Event History• Configuration management for the WebCenter server/ domains/processes and related artifacts.• Basic provisioning and deployment automation to automate deployment of WebCenter applications, resources, domains, artifacts, and composites.• Notifications to 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.• Advanced alert management to 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.• Blackouts suspend monitoring on targets to support scheduled maintenance periods.• Service level management to monitor services from the end-user's perspective using service tests or synthetic transactions, model relationships between

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Feature Summary (Continued)	<p>services and underlying IT components, and report on achieved service levels.</p> <ul style="list-style-type: none"> • Run-time governance to 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. • Metric Extensions create new metrics to monitor conditions specific to customer environments. <p>Note: License to provision WebCenter Suite products or related discovered components of those platforms through user-defined procedures is included as part of Management Pack for WebCenter.</p>
Management Pack for WebCenter	Licensed Links	<p>The following are the licensed pages and links for the Management Pack for WebCenter pages:</p> <p>WebCenter and Portlet Producer right-hand panes</p> <ul style="list-style-type: none"> • From the Targets menu, select Oracle WebCenter, then click Go. A list of Oracle WebCenter targets appears. Click any target. All alert, policy violation, and historical links in these panes are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Right-Hand Pane Licensed Links	<p>In addition to all links and sub-nodes, all tabbed pane links and data available in the right-hand pane and 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> <p>Application Deployment Menu</p> <ul style="list-style-type: none"> 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: WebCenter, ADF, All, Day, and 2 hours <p>Portlet Producer Monitoring Links and Menus</p> <ul style="list-style-type: none"> From the Portlet Producer page, select the Portlet Producer menu, then select Monitoring. These links and menu items are licensed: Status History, Alert History, Blackouts, Policy Violations, and Policy Trend Overview <p>Create/End Blackout page</p> <ul style="list-style-type: none"> From the Portlet Producer menu on the Portlet Producer page, select Control. This page is licensed. From the WebCenter menu on the Portlet Producer page, select Control. This page is licensed. <p>WebCenter Monitoring Links and Menus</p> <ul style="list-style-type: none"> Click the WebCenter menu, then Monitoring. These links and menu items are licensed: 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>Configure tab link</p> <ul style="list-style-type: none"> From the upper-left navigation area, click the Configure tab link. All navigation tree nodes and all tabbed pane links and data available in the right pane are licensed. <p>Resources tab link</p> <ul style="list-style-type: none"> From the upper-left navigation area, click the Resources tab link. All navigation tree nodes and all tabbed pane links and data available in the right pane are licensed. <p>Custom Views tab link</p> <ul style="list-style-type: none"> From the upper-left navigation area, click the Custom Views tab link. All navigation tree nodes in the lower-left navigation tree and all tabbed pane links and data available in the right pane are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Right-Hand Pane Licensed Links (continued)	<p>Middleware Provisioning</p> <ul style="list-style-type: none"> From the Enterprise menu, select Provisioning and Patching, and then select Procedure Library. The following predefined procedures are licensed with the WebCenter Management Pack: Provision Middleware and Scale up/Scale Out Middleware From the Enterprise menu, select Provisioning and Patching, and then select Middleware Provisioning. All features, functions, links, buttons, and drill-downs on the Middleware Provisioning page are licensed as part of the WebCenter Management Pack - with the exception of SOA Artifacts Provisioning, Deploy SOA Composite, BPEL Process Provisioning, and Oracle Service Bus Resource Provisioning deployment procedures (these are licensable through the SOA Management Pack Enterprise Edition). Only the provisioning of WebLogic domains and artifacts required to run the WebCenter application are included in the pack. On the WebCenter Domain target home page from the WebCenter Domain menu, select Provisioning. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the WebCenter Management - with the exception of SOA Artifacts Provisioning and Deploy SOA Composite (these are licensable through the SOA Management Pack Enterprise Edition).
Management Pack for WebCenter	Restricted-Use License	<p>WebCenter Management Pack includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.</p> <p>See Enterprise Manager Cloud Control Service Level Management in End-User Monitoring for more information.</p>

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 time and also change run-time 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, and so on). 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.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for Oracle Coherence	Features	<p>The Management Pack for Oracle Coherence includes the following features:</p> <ul style="list-style-type: none"> • Automate deployment and setup of the Coherence cluster with multiple nodes. • Blackouts suspend monitoring on targets to support scheduled maintenance periods. • Cache data management to perform operations such as view, export, purge, and so on, on cache data. • Complete cluster visibility of detailed metrics for all Coherence components. • Configuration management to keep track of node configuration over time, change run-time configuration parameters of caches, nodes and services. • Customizable performance views by selecting metrics from the metrics pallet, overlay multiple metrics on the chart, save different views. • Log file monitoring to monitor the node log files by setting patterns. • Management Connectors - help desk (ticketing) connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems. • Metric and Alert/Event History • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitor multiple clusters from a single console. • 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 to 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 in a Coherence cluster. • Start and stop the entire Coherence cluster. • Topology view of the Coherence caches, nodes and hosts with related in context performance alerts. <p>Note: License to provision Coherence products through user-defined procedures is included as part of Management Pack for Oracle Coherence.</p>

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for Oracle Coherence	Licensed Links	<p>The following are the licensed pages and links for the Management Pack for Oracle Coherence pages:</p> <p>Oracle Coherence Cluster type links</p> <ul style="list-style-type: none"> From the Targets menu, select Middleware. All links and subordinate pages of the Oracle Coherence Cluster type in the table are licensed.

Management Pack for Oracle Data Integrator

Management Pack for Oracle Data Integrator leverages Oracle Enterprise Manager Cloud Control best-in-class application performance management, service level management, and configuration management capabilities to provide a centralized management solution for Oracle Data Integrator Enterprise Edition.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for Oracle Data Integrator	Features	<p>The Management Pack for Oracle Data Integrator includes the following features:</p> <ul style="list-style-type: none">• Advanced alert management to 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.• Centralized management console to monitor and manage all enterprise components including ODI domains from a central location.• Configuration management for the ODI Agents.• Historical analysis and reporting• Infrastructure management to monitor availability and performance of ODI infrastructure components: Agents, Repositories, Sources and Targets.• Load Plan and Session Monitoring to monitor end-to-end Oracle Data Integrator Load Plans and Sessions activity, review execution statistics and drill-down from a particular Task into a detailed report of Oracle databases activity.• Metric and Alert/Event History• Metric Extensions to create new metrics to monitor conditions specific to customer environments.• 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 to 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 to provide real-time and historical performance monitoring.• Service level management to 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.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for Oracle Data Integrator	Licensed Links	<p>The following are the licensed pages and links for the Management Pack for Oracle Data Integrator pages:</p> <p>Oracle Data Integrator home page links</p> <ul style="list-style-type: none"> From the Targets menu, select Middleware. From the Middleware page, click Middleware Features and select ODI Home. All links and subordinate pages of the Oracle Data Integrator Home page are licensed. <p>Oracle Data Integrator target type links</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select any of the ODI target types. From the Oracle Data Integrator target target menu, these items are licensed.

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 Release 11g, Release 10g, and BI 12c. 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.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Features	<p>The Business Intelligence Management Pack includes the following features:</p> <ul style="list-style-type: none"> • Automatic discovery support to efficiently and quickly discover targets. • Blackouts suppress unnecessary alerts during maintenance windows, and provide more accurate availability reporting. • Change history to search collected configuration data and view the history of configuration changes for diagnostic and regulatory purposes. • Configuration comparison to provide configuration diagnostics quickly. Replicate configuration in development/staging to production. Make sure that configuration settings among Oracle BI components in a clustered environment are consistent. • Configuration snapshot allows 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. • Historical metrics to 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 open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems. • Metric and Alert/Event History. • Metric Extensions create new metrics to monitor conditions specific to customer environments. • 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 charts to perform usage analysis and diagnose production problems. • Service level rule defines 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. <p>Note: License to provision Oracle Business Intelligence Enterprise Edition through user-defined procedures is</p>

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Supported Oracle BI EE 11g Targets, and Oracle BI EE 12c Targets	<p data-bbox="764 302 1338 357">included as part of Business Intelligence Management Pack.</p> <p data-bbox="764 373 1370 485">The licensed pages and links of this pack apply to targets specific to Oracle Business Intelligence EE 11g, and Oracle Business Intelligence EE 12c within Enterprise Manager:</p> <ul data-bbox="764 495 1130 751" style="list-style-type: none"><li data-bbox="764 495 1008 522">• Oracle BI Instance<li data-bbox="764 527 1102 554">• Oracle BI Cluster Controller<li data-bbox="764 558 1024 585">• Oracle BI Java Host<li data-bbox="764 590 1130 617">• Oracle BI Presentation Server<li data-bbox="764 621 989 648">• Oracle BI Server<li data-bbox="764 653 1024 680">• Oracle BI Scheduler<li data-bbox="764 684 980 711">• Essbase Server<li data-bbox="764 716 1024 743">• Essbase Application

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 11g, and Oracle BI EE 12c Licensed Links	<p>The following licensed pages and links of this pack apply to targets specific to Oracle Business Intelligence EE 11g, and Oracle Business Intelligence EE 12c within Enterprise Manager:</p> <p>Oracle BI Instance page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Oracle BI Instance. <p>Oracle BI Instance Target menu</p> <ul style="list-style-type: none"> On the Oracle BI Instance page from the Oracle BI Instance target menu, these items are licensed: <ul style="list-style-type: none"> Logs* Job Activity Dashboard Reports Scheduler Reports Configuration Compliance Note: The log viewer functionality is licensed with the WebLogic Server Management Pack Enterprise Edition. <p>Availability</p> <ul style="list-style-type: none"> On the Oracle BI Instance page, the Availability tab and all its sub-tabs are licensed. <p>Oracle BI Cluster Controller page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Oracle BI Cluster Controller. <p>Oracle BI Java Host page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Oracle BI Java host. <p>Oracle BI Presentation Server page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Oracle BI Presentation Server. <p>Oracle BI Server page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Oracle BI Server. <p>Oracle BI Scheduler page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Oracle BI Scheduler. <p>Essbase Server page</p> <ul style="list-style-type: none"> From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Essbase Server. <p>Essbase Applications page</p> <ul style="list-style-type: none"> From the Enterprise Summary page, click the Targets menu, then All Targets. On the All Targets page, select a target of type Essbase Application.

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 11g Licensed Links (continued)	<p>The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 11g-specific targets within Enterprise Manager:</p> <p>Target Menu</p> <p>The Job Activity, Configuration, and Compliance menu items and sub-items are licensed on the following pages:</p> <ul style="list-style-type: none"> • BI Cluster Controller page • Oracle BI Java Host page • Oracle BI Presentation Server page • Oracle BI Server page • Oracle BI Schedule page • Essbase Server page • Essbase Applications page <p>Control Menu</p> <p>The Create Blackout and End Blackout menu items are licensed on the following pages:</p> <ul style="list-style-type: none"> • Oracle BI Instance page • Oracle BI Cluster Controller page • Oracle BI Java host page • Oracle BI Presentation Server page • Oracle BI Server page • Oracle BI Schedule page • Essbase Server page: <p>Monitoring Menu</p> <p>The Performance Summary, Status History, Alert History, and Blackouts menu items are licensed on the following pages:</p> <ul style="list-style-type: none"> • Oracle BI Instance page • Oracle BI Cluster Controller page • Oracle BI Java host page • Oracle BI Presentation Server page • Oracle BI Server page • Oracle BI Schedule page • Essbase Server page • Essbase Applications page
BI Management Pack	Supported Oracle BI EE 10g Targets	<p>The licensed pages and links of this pack apply to the following Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager:</p> <ul style="list-style-type: none"> • Oracle BI Analytics Server • Oracle BI Cluster Controller • Oracle BI Presentation Server • Oracle BI Scheduler • Oracle BI Suite Enterprise Edition • Oracle BI Data Warehouse Administration Console (DAC) Server • Hosts Running BI Components

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 10g Licensed Links	<p>The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager:</p> <p>Oracle BI Analytics Server page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Oracle BI Analytics Server. <p>Oracle BI Analytics Server Performance page</p> <ul style="list-style-type: none"> On the Oracle BI Analytics Server page, select the Performance sub-tab. All features on this page are licensed. <p>Oracle BI Analytics Server Dashboard Reports page</p> <ul style="list-style-type: none"> On the Oracle BI Analytics Server page, select the Dashboard sub-tab. All features on this page are licensed. <p>Oracle BI Cluster Controller page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Oracle BI Cluster Controller. <p>Oracle BI Cluster Controller Members page</p> <ul style="list-style-type: none"> On the Oracle BI Cluster Controller page, select the Members sub-tab. All features on this page are licensed. <p>Oracle BI Presentation Server page</p> <ul style="list-style-type: none"> 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. <p>Oracle BI Presentation Server Performance page</p> <ul style="list-style-type: none"> On the Oracle BI Presentation Server page, select the Performance sub-tab. All features on this page are licensed. <p>Oracle BI Scheduler page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. From the All Targets page, select a target of type Oracle BI Scheduler name. On the Oracle BI Schedule page, these items are licensed: <ul style="list-style-type: none"> Failed BI Jobs Scheduler section Next Schedule Jobs section All links in the System and Service section <p>Oracle BI Suite Enterprise Edition page</p> <ul style="list-style-type: none"> From the Targets menu, select 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: <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

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 10g Licensed Links (continued)	<p>Target Menu</p> <p>The Monitoring, Control, Job Activity, Information Publisher Reports, Configuration, Compliance, and Target Setup menu items and sub-items are licensed on the following pages:</p> <ul style="list-style-type: none"> • Oracle BI Analytics Server page • Oracle BI Cluster Controller page • Oracle BI Presentation Server page • Oracle BI Scheduler page • Oracle BI Data Warehouse Administration Console (DAC) Server page <p>The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager:</p> <p>Oracle BI Suite EE Members page</p> <ul style="list-style-type: none"> • On the Oracle BI Suite Enterprise Edition page, select the Members sub-tab. All features on this page are licensed. <p>Oracle BI Suite Enterprise Edition System Home page</p> <ul style="list-style-type: none"> • On the Oracle BI Suite Enterprise Edition 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: • 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>System Charts page</p> <ul style="list-style-type: none"> • On the Oracle BI Suite Enterprise Edition page, select either System name or Service name. • On the corresponding page, select the Charts sub-tab. All features on this page are licensed. <p>System Administration page</p> <ul style="list-style-type: none"> • On the Oracle BI Suite Enterprise Edition 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. <p>System Components page</p> <ul style="list-style-type: none"> • On the Oracle BI Suite Enterprise Edition 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. <p>System Topology page</p> <ul style="list-style-type: none"> • On the Oracle BI Suite Enterprise Edition page, select an Oracle BI Suite EE name. From the Oracle

Management Pack	Type of Licensing Information	Licensing Information
		<p>BI Suite EE page, select either System name or Service name.</p> <ul style="list-style-type: none">• On the corresponding page, select the Topology sub-tab. All features on these pages are licensed.

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 10g Licensed Links (continued)	<p>System and Service section</p> <ul style="list-style-type: none"> On the Oracle BI Suite Enterprise Edition page, select a Service name in the System and Service section. These items are licensed: <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>Oracle BI Data Warehouse Administration Console (DAC) Server page</p> <ul style="list-style-type: none"> 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. <p>Oracle BI DAC Server Performance page</p> <ul style="list-style-type: none"> From the Oracle BI Data Warehouse Administration Console (DAC) Server page, select the Performance sub-tab. All features on this page are licensed. <p>The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager:</p> <p>Monitoring Configuration sub-tab</p> <ul style="list-style-type: none"> On the Oracle BI Suite Enterprise Edition 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: <ul style="list-style-type: none"> System Configuration Root Cause Analysis Configuration Service Tests and Beacons Availability Definition Performance Metrics Usage Metrics links All links in the Related Links section <p>Service System page</p> <ul style="list-style-type: none"> On the Oracle BI Suite Enterprise Edition 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: <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.

4

Cloud Management

This chapter describes the Cloud Management packs offered by Enterprise Manager. The following packs are included:

- [Oracle Cloud Management Pack for Oracle Database](#)
- [Oracle Cloud Management Pack for Oracle Fusion 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. Verify license access information by clicking **Setup, Management Packs**, then **Management Pack Access**.

Oracle Cloud Management Pack for Oracle Database

Oracle Cloud Management Pack for Oracle Database helps to set up a Database Cloud and operate the Database as a Service model. The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Feature Summary	<p>The Oracle Cloud Management Pack for Oracle Database provides the following features:</p> <ul style="list-style-type: none"> • Out-of-box self-service portal and database technical service catalog that provides a set of pre-approved templates based on the role of the consumer. • Self-service database provisioning providing support on physical, virtual and Engineered Systems infrastructure, and Oracle Compute Cloud Service. • Comprehensive deployment models that supports shared server (VM based), shared cluster, shared database (Schema-as-a-Service), and Pluggable Database-as-a-Service (PDBaaS) deployment models. • Snap Clone - a fast, storage-agnostic, space-efficient approach to cloning Oracle Databases. This feature supports Oracle Databases including Pluggable databases. Enterprise Manager support for Exadata Sparse Clone, CloneDB, ACFS Snapshot-based thin cloning of Multitenant, and thin cloning on ZFS storage appliance are included under the Snap Clone feature. • Data Refresh for Full Clones - the ability to refresh the data contained in full clones with the latest from production using newer RMAN backups or using RMAN duplicate. This feature significantly reduces the DBA time and effort. Note: The ability to create 'new' full clones is licensed under Database Lifecycle Management Pack for Oracle Database, but the additional 'refresh' function requires licensing the Cloud Management Pack for Oracle Database. • Administrative flows (non-self service) creates snap clones of source databases, including the ability to refresh the database while maintaining its name and configuration parameters. • Snap Clone using TestMaster Snapshots - TestMaster Snapshots represent a storage snapshot of RMAN Image BACKUP from a production database. This is used to create Storage-efficient clones with periodic data refresh capability. • Grouping of Cloud Infrastructure under the umbrella of 'PaaS Zone' and creation of Homogeneous Cloud Pool(s). • Governance - a role-based access and resource control through quotas and retirement policies. • Metering and chargeback provides support based on fixed cost, utilization metrics and configuration parameters of the database.
Oracle Cloud Management Pack for Oracle Database	Feature Summary (Continued)	<p>Programmatic access to the Self-Service Portal through REST APIs and EMCLIs.</p>
Oracle Cloud Management Pack for Oracle Database	Prerequisites	<p>The Oracle Cloud Management Pack for Oracle Database requires the Database Lifecycle Management Pack for Oracle Database.</p>

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Licensed Links	<p>The following are the licensed pages and links for the Oracle Cloud Management Pack for Oracle Database:</p> <ul style="list-style-type: none"> • Licensed actions From the Database home page, select the Database target menu. Select Cloning and then select Clone and Refresh. On this page, these actions are licensed: Create CloneDB Databases Create Snap Clone Databases Create Snapshot Clone Promote as Test Master Remove from Test Masters Refresh • Oracle VM Infrastructure home page From the Enterprise menu, select Cloud, then Oracle VM Infrastructure Home. • Oracle VM Infrastructure Request Dashboard page From the Enterprise menu, select Cloud, then Oracle VM Infrastructure Request Dashboard. • Policies page From the Enterprise menu, select Cloud, then Policies. • Cloud Home page From the Enterprise menu, select Cloud, then Cloud Home. • Self Service Portal page From the Enterprise menu, select Cloud, then Self Service Portal. • Chargeback page From the Enterprise menu, select Chargeback. • Infrastructure page From the Setup menu, select Cloud, then select Infrastructure. • Database page From the Setup menu, select Cloud, then select Database. • Storage Registration page From the Setup menu, select Provisioning and Patching, then select Storage Registration.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Licensed Links (Continued)	<p>Snap Clone</p> <p>From the Enterprise menu:</p> <ul style="list-style-type: none"> • Select Provisioning and Patching, then select Database Provisioning. • On the Database Provisioning page in the Related Links section of the left menu page, select Provision Pluggable Databases. • From the PDB Operations section, select Create New Pluggable Databases. Click Launch. • From the Pluggable Database Creation Options, select Clone an Existing PDB -> Snap Clone. <p>From the multitenant container database home page:</p> <ul style="list-style-type: none"> • From the Oracle Database menu, select Provisioning, and then select Provision Pluggable Database. • From the PDB Operations section, select Create New Pluggable Databases. Click Launch. • From the Pluggable Database Creation Options, select Clone an Existing PDB -> Snap Clone.
Oracle Cloud Management Pack for Oracle Database	Licensed RESTful APIs	<p>The following RESTful APIs are licensed:</p> <ul style="list-style-type: none"> • Assembly Operations Any POST/GET/PUT/DELETE on /em/cloud/iaas URI space for Resources Assembly Template and Assembly Instance. • Database and Schema Operations Any POST/GET/PUT/DELETE on /em/cloud/dbaas/ URI space. • DBaaS Setup Operations Any POST/GET/PUT/DELETE on /em/websvcs/restful/extws/cloudservices/admin/cfw/v1 URI space.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Licensed EMCLI Verbs	<p>The following EMCLI verbs are licensed under the Oracle Cloud Management Pack for Oracle Database:</p> <pre> add_pool_members cancel_cloud_service_requests create_charge_item create_dbaas_quota create_pool create_service_template db_cloud_maintenance db_software_maintenance delete_charge_item delete_cloud_service_instances delete_cloud_user_objects delete_dbaas_quota delete_pool delete_service_template deploy_rac_software deploy_db_software get_cloud_service_requests get_cloud_user_objects get_cloud_service_instances get_dbaas_quota get_dbaas_request_settings get_metering_data get_pool_capacity_data get_pool_capacity_summary_data get_pool_detail get_service_template get_pool_constraints get_pool_criteria get_pool_instance_data get_pool_target_type get_pools list_charge_item_candidates refresh_database remove_pool_members update_dbaas_request_settings update_dbaas_quota update_pool </pre>
Oracle Cloud Management Pack for Oracle Database	Licensed Views and Tables	<p>The following objects within the repository schema are licensed under the Oracle Cloud Management Pack for Oracle Database:</p> <ul style="list-style-type: none"> • Tables starting with EMCT_CBA. • Views starting with EMCT\$CBA. • The views: <pre> GP_EMCT_CBA_TARGET_CHARGE MGMT\$EMCT_CBA_CHARGE_HOURLY MGMT\$EMCT_CBA_CHARGE_DAILY </pre>

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Licensed Chargeback Reports	<p>The following BI Publisher reports are licensed under the Oracle Cloud Management Pack for Oracle Database. Also, any report created using the "create-like" feature of BI Publisher referring the following reports, falls under this license.</p> <ul style="list-style-type: none"> • Charge Trend Report • Charge Summary Report • Usage Trend Report • Usage Summary Report

Oracle Cloud Management Pack for Oracle Fusion 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. The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Fusion Middleware	Feature Summary	<p>The Oracle Cloud Management Pack for Oracle Fusion Middleware provides the following features:</p> <ul style="list-style-type: none"> • JVM Self Service Provisioning. • Self-service provisioning provides support for WebLogic-based Java services on both physical and virtual infrastructure. • Service creation and service deletion provides pre- and post-script support. • SOA as a Service provides support for SOA-based services on both physical and virtual infrastructure. • SOA Cloning with artifacts provides support for cloning of WebCenter environments with artifacts. • Optional load balancer provides support for Oracle Traffic Director, Oracle HTTP Server, and third-party load balancer. • Elasticity provides automatic resource management based on schedule- and performance-based resource management policies. • Metering and chargeback provides support based on fixed cost, utilization metrics, and configuration parameters of the WebLogic Server. • Governance. A role-based access and resource control through quotas and retirement policies. • Programmatic access provides access to the Self-Service Portal through REST APIs and EMCLIs

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Fusion Middleware	Prerequisites	<p>The Oracle Cloud Management Pack for Oracle Fusion Middleware requires either:</p> <ul style="list-style-type: none"> • The WebLogic Server Management Pack Enterprise Edition for deploying WebLogic-based applications. • The SOA Management Pack Enterprise Edition for deploying SOA.
Oracle Cloud Management Pack for Oracle Fusion Middleware	Licensed Links	<p>The following are the licensed pages and links for the Oracle Cloud Management Pack for Oracle Fusion Middleware:</p> <ul style="list-style-type: none"> • Oracle Infrastructure home page From the Enterprise menu, select Cloud, then Oracle Infrastructure Home. • Oracle Infrastructure Request Dashboard page From the Enterprise menu, select Cloud, then Oracle Infrastructure Request Dashboard. • Infrastructure Policies page From the Enterprise menu, select Cloud, then Infrastructure Policies. • Middleware and Database Home page From the Enterprise menu, select Cloud, then Middleware and Database Home. • Middleware and Database Request Dashboard page From the Enterprise menu, select Cloud, then Middleware and Database Request Dashboard. • Self Service Portal page From the Enterprise menu, select Cloud, then Self Service Portal. • Service Instances page From the Enterprise menu, select Cloud, then Service Instances. • Chargeback page From the Enterprise menu, select Chargeback. • Infrastructure page From the Setup menu, select Cloud, then select Infrastructure. • Middleware page From the Setup menu, select Cloud, then select Middleware.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Fusion Middleware	Licensed APIs	<p>The following APIs are licensed:</p> <ul style="list-style-type: none"> • Assembly operations Any POST/GET/PUT/DELETE on /em/cloud/iaas/ URI space for Resources Assembly Template and Assembly Instance. • Java PaaS operations Any POST/GET/PUT/DELETE on /em/cloud/jaas/ URI space. • MWaaS setup operations Any POST/GET/PUT/DELETE on: /em/websvcs/restful/extws/cloudservices/admin/cfw/v1 URI space. /em/websvcs/restful/extws/cloudservices/admin/mwaas/v1 URI space. /em/websvcs/restful/extws/cloudservices/ssa/mwaas/v1 URI space. • MWaaS user operations Any POST/GET/PUT/DELETE on /em/websvcs/restful/extws/cloudservices/ssa/mwaas/v1 URI space.
Oracle Cloud Management Pack for Oracle Fusion Middleware	Licensed Views	<p>The following objects within the repository schema are licensed under the Oracle Cloud Management Pack for Oracle Fusion Middleware:</p> <ul style="list-style-type: none"> • Tables starting with EMCT_CBA. • Views starting with EMCT\$CBA. • The views: GP_EMCT_CBA_TARGET_CHARGE MGMT\$EMCT_CBA_CHARGE_HOURLY MGMT\$EMCT_CBA_CHARGE_DAILY

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Fusion Middleware	Licensed EMCLI Verbs	<p>The following EMCLI verbs are licensed under the Oracle Cloud Management Pack for Oracle Fusion Middleware. These verbs operate on a middleware</p> <pre>pool.get_pool_target_type: add_pool_members create_charge_item create_pool create_service_template delete_charge_item delete_pool delete_service_template get_metering_data get_pool_instance_data get_pool_capacity_data get_pool_capacity_summary_data get_pool_constraints get_pool_criteria get_pool_detail get_pools get_service_template list_charge_item_candidates remove_pool_members update_pool</pre>
Oracle Cloud Management Pack for Oracle Fusion Middleware	Licensed Chargeback Reports	<p>The following BI Publisher reports are licensed under the Oracle Cloud Management Pack for Oracle Fusion Middleware. Also, any report created using the "create-like" feature of BI Publisher referring the following reports, falls under this license.</p> <ul style="list-style-type: none"> • Charge Trend Report • Charge Summary Report • Usage Trend Report • Usage Summary Report

5

Identity Management Enterprise Management

This chapter describes the licensed features and links of the following management pack offered by Enterprise Manager in support of Identity Management:

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

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 following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Supported Environments	This helps improve performance and availability, and reduce the cost and complexity of managing Identity Management deployments, including the following environments: <ul style="list-style-type: none">• Oracle Internet Directory• Directory Integration Platform• Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition)• Oracle Virtual Directory• Oracle Identity Federation• Oracle Access Manager• Oracle Identity Manager• Oracle Adaptive Access Manager• Oracle Mobile & Social• Oracle Unified Directory
Management Pack Plus for Identity Management	License to Provision	License to provision Oracle Identity Management products through user-defined procedures is included as part of Management Pack Plus for Identity Management.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	General Features	<p>The Management Pack Plus for Identity Management includes the following features:</p> <ul style="list-style-type: none"> • 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. • Beacons measure availability and performance from representative key user locations. • Blackouts suspend monitoring on targets to support scheduled maintenance periods. • Complete service monitoring of service availability, performance, usage, and service level compliance. • Configuration to 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 open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems. • Metric and Alert/Event History • Metric Extensions create new metrics to monitor conditions specific to customer environments. • Monitoring and diagnostics to 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 encapsulate target monitoring settings and can later be applied against many targets. • Monitoring support for IDM 12c: Oracle Access Manager (OAM), Oracle Identity Manager (OIM), Oracle Internet Directory (OID), and Directory Integration Platform (DIP). • Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group. • Notifications to 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 of critical business functions based on a wide range of supported protocols.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	General Features (Continued)	<ul style="list-style-type: none"> • Single-step discovery of Identity Management 10g, 11g, and 12c components. 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). 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. Identity Management 12c components include: Oracle Directory Integration Platform, Oracle Internet Directory, Oracle Access Manager, and Oracle Identity Manager. A simple target discovery is also provided for Oracle Directory Server Enterprise Edition 6.x, 7.x, and 11g • Business Application Management to 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.
Management Pack Plus for Identity Management	Oracle Unified Directory and WebLogic-based Containers Features	<p>The following features are licensed for Oracle Unified Directory and WebLogic-based containers included in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management:</p> <ul style="list-style-type: none"> • Interactive JVM transaction trace Provide JVM thread tracing to view the response time breakdowns in each layer (servlet, JSP, EJB, JDBC, and SQL) of a JVM container. • JVM Diagnostics Agent hot deployment without WebLogic Server restarts or configuration changes. • JVM pool monitoring of all JVMs of an application together with uniform monitoring settings.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	WebLogic-based Containers Features	<p>The following features are licensed for WebLogic-based containers included in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management:</p> <ul style="list-style-type: none"> • "Always on" low overhead monitoring, notifications, and dashboards to diagnose past problems, receive early warnings of outages, see a single view of the status of all applications. • Blackouts suspend monitoring on targets to support scheduled maintenance periods. • Business Application Management to provide an intuitive representation of the relationship between your applications and business transactions and the underlying IT infrastructure. • Composite Application Management to provide full visibility across all members and tiers of a composite application. • Historical performance monitoring to track availability and performance data over time. • Management Connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems. • Metric and Alert/Event History • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • 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 to 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. • Routing Topology to understand relationships and health of a Fusion Middleware Farm/WebLogic Domain and their related targets. • Real-time visibility into a JVM and application state without instrumentation overhead eliminate the need to reproduce problems in a test environment. <i>(Applies to applications deployed to both Oracle Application Server and WebLogic Server)</i> • Request performance to provide historical views that show the response times for end-user requests from the context of WebLogic Server and the underlying JVM. Response time breakdowns are available in each layer (servlet, JSP, EJB, JDBC, and SQL) of an WebLogic container.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	WebLogic-based Containers Features	<p>The following features are licensed for WebLogic-based containers in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management:</p> <ul style="list-style-type: none">• Contextual visibility into Java EE and web service metrics• Cross-tier trace with Oracle Database to view the impact of database problems on all associated applications and JVMs, and isolate problems between Java and the database.• Diagnostic Snapshot of both JVM monitoring and diagnostics data in correlation with the WebLogic Server log files.• Differential heap analysis uses memory leak analysis in production, and simplifies memory growth and leak analysis.• Interactive JVM transaction trace to view the response time breakdowns in each layer (servlet, JSP, EJB, JDBC, and SQL) of a JVM container.• JVM Diagnostics Agent hot deployment without WebLogic Server restarts or configuration changes.• Log Viewer to 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).• Metrics visibility for any layer to generate customized dashboards and views automatically.• Middleware Diagnostics Advisor provides detailed advice and recommendations based on performance and configuration data for the entire middleware and database stack.• Service-level objectives provide service-level objectives (SLOs) at any point within the architecture for indicators and alerts.• Trace in-flight transactions to view request performance problems in real time. Analyze time spent in each resource bottleneck and Java method.• WebLogic Domain/JVM pool monitoring of all JVMs of an application with uniform monitoring settings.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Oracle Access Manager Coherence-based Container Features	<p>The following features are licensed for Oracle Access Manager Coherence-based containers included in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management:</p> <ul style="list-style-type: none"> • Automate deployment and setup of the Coherence cluster with multiple nodes. • Blackouts suspend monitoring on targets to support scheduled maintenance periods. • Cache data management to perform operations such as view, export, purge, and so on, on cache data. • Complete cluster visibility of detailed metrics for all Coherence components. • Configuration management to 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 run-time configuration parameters of caches, nodes and services. • Customizable performance views by selecting metrics from the metrics pallet, overlay multiple metrics on the chart, save different views. • Log file monitoring of node log files by setting patterns. • Management Connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems. • Metric and Alert/Event History • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitor multiple clusters from a single console. • 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 to 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. • Routing Topology to understand relationships and health of a Fusion Middleware Farm/WebLogic Domain and their related targets. • Stop existing nodes and start new ones in a Coherence cluster. • Start and stop the entire Coherence cluster. • Topology view provide a graphical representation of the Coherence caches, nodes and hosts with related in context performance alerts.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Oracle Identity Manager SOA-based Container Features	<p>The following features are licensed for Oracle Identity Manager SOA-based containers included in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management:</p> <ul style="list-style-type: none">• Adapter metrics provide throughput and error metrics for different adapters in graphical format.• Blackouts suspend monitoring on targets to support scheduled maintenance periods.• Business-IT alignment provides integration for business KPIs and system metrics in one system for correlation and trending.• Centralized management console to monitor and manage all enterprise components from a central location.• Change Activity Plans provide the ability to plan, track in real time, and execute data-centerwide change activities. Activities include: PSU patch rollouts, database consolidation to Exadata, and so on.• Configuration management for the BPEL Process Manager server/domains/processes and Oracle Service Bus.• Deployment automation of BPEL suitcases, OSB resources, SOA artifacts, and SOA composites.• Discovery and service modeling of Oracle BPEL processes, Oracle Service Bus-based business and proxy services. Provide automated system modeling capabilities for the SOA infrastructure.• Historical analysis and reporting to store collected metric and configuration data in a central repository.• Infrastructure management to monitor availability and performance of SOA infrastructure components.• Management Connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.• Metric and Alert/Event History• Metric Extensions create new metrics to monitor conditions specific to customer environments.• 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 to 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.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Oracle Identity Manager SOA-based Container Features (Continued)	<ul style="list-style-type: none"> • Run-time governance to 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 to 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
Management Pack Plus for Identity Management	Identity Management 10g Targets	<ul style="list-style-type: none"> • Access Manager — Access Server • Access Manager — Identity Server • Access Manager — Access System • Access Manager — Identity System • Identity Federation Server • Identity Federation System • Identity Manager Repository • Identity Manager Server • Identity Manager System • Delegated Administration Server • Directory Integration Platform Server • Oracle Internet Directory • Single Sign-On Server • Hosts running Identity Management components • 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
Management Pack Plus for Identity Management	Identity Management 11g Targets	<ul style="list-style-type: none"> • Oracle Internet Directory • Oracle Unified Directory • Identity Federation Server • Directory Integration Platform Server • Oracle Virtual Directory • Oracle Access Manager • Oracle Access Manager Cluster • Oracle Adaptive Access Manager • Oracle Identity Manager • Oracle Adaptive Access Manager Cluster • Oracle Identity Manager Cluster • Hosts running Identity Management components • Generic Service & Identity and Access System targets associated with Identity Management 11g components
Management Pack Plus for Identity Management	Identity Management 12c Targets	<ul style="list-style-type: none"> • Oracle Identity Manager • Directory Integration Platform Server • Oracle Access Manager • Oracle Identity Directory

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Management Pack Plus for Identity Management	Oracle Directory Server Enterprise Edition Targets	<p>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, and ODSEE 11gR1. The following Oracle DSEE target types are supported:</p> <ul style="list-style-type: none"><li data-bbox="745 485 1084 512">• Directory Server Enterprise<li data-bbox="745 516 1240 543">• Directory Server Enterprise Edition Server<li data-bbox="745 548 1040 575">• Directory Server Group<li data-bbox="745 579 1227 606">• Hosts running Oracle DSEE components

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Management Pack Plus for Identity Management	Licensed Links	<p>The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager:</p> <p>Identity and Access page</p> <ul style="list-style-type: none"> From the Targets menu, select Middleware. On the Middleware page, select the Middleware Features menu and then select Identity and Access. All links and drop-down menu items on this page are licensed. <p>Identity Management 11g Targets</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select any of the target types referenced from Identity Management 11g Targets (listed above). All links and drop-down menu items are licensed. <p>Oracle Directory Server Enterprise Edition Targets</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select any of the target types referenced from Oracle Directory Server Enterprise Edition Targets (listed above). All links and drop-down menu items are licensed. <p>Access Manager - Access Server page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Access Manager – Access Server. From the Targets menu, select Middleware. From the Middleware Features menu, select Identity and Access. On the Access Manager – Access Server Home page, these items and all links in these sections are licensed: <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>Access Manager - Identity Server page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Access Manager – Identity Server. The Access Manager – Identity Server Home page appears. From the Targets menu, select Middleware. From the Middleware Features menu, select Identity and Access. On the Access Manager - Identity Server Home page, these items and all links in these sections are licensed: <ul style="list-style-type: none"> Black Out button Availability link Associated Directory Server Information section Alerts section Host Alerts section Configuration section

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links (continued)	<p data-bbox="794 302 1021 329">Related Links section</p> <p data-bbox="745 342 1377 426">The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager:</p> <p data-bbox="745 436 1341 464">Access Manager – Identity Server Performance page</p> <ul data-bbox="745 474 1377 615" style="list-style-type: none"> <li data-bbox="745 474 1377 615">• From the Targets menu, select 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. <p data-bbox="745 625 1195 653">Access Manager - Access System page</p> <ul data-bbox="745 663 1377 1251" style="list-style-type: none"> <li data-bbox="745 663 1377 747">• From the Targets menu, select All Targets. On the All Targets page, select a target of type Access Manager – Access System. <li data-bbox="745 747 1377 831">• From the Targets menu, select Middleware. From the Middleware Features menu, select Identity and Access. <li data-bbox="745 831 1377 894">• On the Access Manager - Access System home page, all features on the page are licensed. <li data-bbox="745 894 1377 978">• From the Access Manager - Access System home page, select the Charts sub-tab. All features on this page are licensed. <li data-bbox="745 978 1377 1062">• From the Access Manager - Access System home page, select the Administration sub-tab. All features on this page are licensed. <li data-bbox="745 1062 1377 1146">• From the Access Manager - Access System home page, select the Components sub-tab. All features on this page are licensed. <li data-bbox="745 1146 1377 1251">• From the Access Manager - Access System home page, select the Topology sub-tab. All features on this page are licensed. <p data-bbox="745 1262 1133 1289">Access Manager - Identity System</p> <ul data-bbox="745 1299 1377 1885" style="list-style-type: none"> <li data-bbox="745 1299 1377 1383">• From the Targets menu, select All Targets. On the All Targets page, select a target of type Access Manager – Identity System. <li data-bbox="745 1383 1377 1467">• From the Targets menu, select Middleware. From the Middleware Features menu, select Identity and Access. <li data-bbox="745 1467 1377 1530">• On the Access Manager - Identity System home page, all features on the page are licensed. <li data-bbox="745 1530 1377 1614">• From the Access Manager - Access Identity home page, select the Charts sub-tab. All features on this page are licensed. <li data-bbox="745 1614 1377 1698">• From the Access Manager - Access Identity home page, select the Administration sub-tab. All features on this page are licensed. <li data-bbox="745 1698 1377 1782">• From the Access Manager - Access Identity home page, select the Components sub-tab. All features on this page are licensed. <li data-bbox="745 1782 1377 1885">• From the Access Manager - Access Identity home page, select the Topology sub-tab. All features on this page are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links (continued)	<p>The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager:</p> <p>Identity Federation Server</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Identity Federation Server. From the Targets menu, select Middleware. From the Middleware Features menu, select Identity and Access. On the Identity Federation Server Home page, these items and all links in these sections are licensed: <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>Identity Federation System</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Identity Federation System. From the Targets menu, select Middleware. From the Middleware Features menu, select Identity and Access. On the Identity Federation System home page, all features on the page are licensed. From the Identity Federation System home page, select the Charts sub-tab. All features on this page are licensed. From the Identity Federation System home page, select the Administration sub-tab. All features on this page are licensed. From the Identity Federation System home page, select the Components sub-tab. All features on this page are licensed. From the Identity Federation System home page, select the Topology sub-tab. All features on this page are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links (continued)	<p>The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager:</p> <p>Identity Manager Repository</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Identity Manager Repository. From the Targets menu, select Middleware. From the Middleware Features menu, select Identity and Access. On the Identity Manager Repository home page, these items and all links in these sections are licensed: <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>Identity Manager Server</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, select a target of type Identity Manager Server. From the Targets menu, select Middleware. Click the Middleware Features menu, then Identity and Access. On the Identity Manager Server home page, these items and all links in these sections are licensed: <ul style="list-style-type: none"> Black Out button Availability link Alerts section Host Alerts section Related Links section <p>Identity Manager Server Performance page</p> <ul style="list-style-type: none"> From the Targets menu, select 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.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links (continued)	<p>Identity Manager System</p> <ul style="list-style-type: none"> • From the Targets menu, select All Targets. On the All Targets page, select a target of type Identity Manager System. • From the Targets menu, select Middleware. From the Middleware Features menu, select Identity and Access. • On the Identity Manager System home page, all features on the page are licensed. • From the Identity Manager System home page, select the Charts sub-tab. All features on this page are licensed. • From the Identity Manager System home page, select the Administration sub-tab. All features on this page are licensed. • From the Identity Manager System home page, select the Components sub-tab. All features on this page are licensed. • From the Identity Manager System home page, select the Topology sub-tab. All features on this page are licensed. <p>Hosts page with Identity Management Components</p> <ul style="list-style-type: none"> • From the Targets menu, select Middleware. On the Middleware page, click the Middleware Features menu, then Identity and Access. All links on this page are licensed: 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>Hosts</p> <ul style="list-style-type: none"> • From the Targets menu, select Hosts. • On the Hosts page, select the Performance sub-tab. All features on this page are licensed. • On the Hosts page, select the Administration sub-tab. All features on this page are licensed. (Note: The

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links Outside of Target-Specific Pages	<p>Administration page is only available for Linux operating systems.)</p> <ul style="list-style-type: none"> On the Hosts page, select the Targets sub-tab. All features on this page are licensed. <p>Application Performance Management</p> <ul style="list-style-type: none"> From the Setup menu, select Middleware Management, and then select Setup. On this page, the ability to register and manage Application Performance Management Engines and other items are licensable as part of the Management Pack Plus for Identity Management. <p>Compliance</p> <ul style="list-style-type: none"> From the Enterprise menu, select 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 Management Pack Plus for Identity Management. <p>Configuration Collection Extensibility</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration and Custom. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Management Pack Plus for Identity Management. <p>Configuration Compare</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration and Compare. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Management Pack Plus for Identity Management. <p>Configuration History</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration and History. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Management Pack Plus for Identity Management. <p>Configuration Instance Browser</p> <ul style="list-style-type: none"> From the Targets menu, select 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 Management Pack Plus for Identity Management. <p>Configuration Save</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration and Save. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Management Pack Plus for Identity Management. <p>Configuration Search</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration and Search. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Management Pack Plus for Identity Management.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links Outside of Target-Specific Pages (Continued)	<p>Configuration Topology</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration and Topology. In the View drop-down menu, Used By is licensed as part of the Management Pack Plus for Identity Management. From the Enterprise menu, select Configuration and Topology, Customization. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the Management Pack Plus for Identity Management. <p>Change Activity Plans</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration. The Change Activity Plans and My Tasks items are licensable as part of the Management Pack Plus for Identity Management. <p>User Defined Deployment Procedures (UDDP)</p> <ul style="list-style-type: none"> From the Enterprise menu, select Provisioning and Patching, and then select Procedure Library. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of the Management Pack Plus for Identity Management. <p>Real-time Configuration Change Detection</p> <ul style="list-style-type: none"> From the Enterprise menu, select Compliance. All features, functions, links, buttons, and drill-downs associated Library, Results and Real-Time Observations pages are licensed as part of the Management Pack Plus for Identity Management.
Management Pack Plus for Identity Management	Real Experience Insight Restricted-Use License	<p>Oracle includes a restricted-use license of Real Use Experience Insight (and its subcomponents) for the express purpose of monitoring Oracle Access Manager SSO URLs and Oracle Identity Manager web-pages served from licensed Oracle Identity Manager containers.</p> <p>See Oracle Real User Experience Insight in End-User Monitoring for more information about REUI functionality.</p>
Management Pack Plus for Identity Management	Service Level Management Restricted-Use License	<p>Management Pack Plus for Identity Management includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.</p> <p>See Enterprise Manager Cloud Control Service Level Management in End-User Monitoring for more information.</p>

6

Other Infrastructure Management

This chapter describes 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. These components comprise the features provided by the Configuration Management Pack for Applications.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Features	<p>The following features and functions can be use with an existing Configuration Management Pack for Applications License:</p> <ul style="list-style-type: none"> • Discovery and Inventory tracking provides the ability to discover your assets, and track them. • Configuration Management to track inventory, configuration drift and detailed configuration search. • Compliance Management for reporting and management of industry and regulatory compliance standards. • Compliance Frameworks, standards, and extensibility to meet industry and regulatory compliance requirements • Configuration Collection Extensibility to create custom configuration collections and extend current collections • Configuration Compare, one-to-one and one-to-many. • Configuration History to report on configuration or relations changes during a specific time frame. • Configuration Instance Browser to view configuration items and associations associated with a target. • Configuration Save for reference, baselines, or Gold Standards. • Configuration Search on a specific target or across relationships. • Configuration Topology of a specified target and its dependencies along with other targets that are dependent on it. • File Synchronization of differences during a comparison. • Real-time configuration change detection and automation of compliance frameworks. • User Defined Deployment Procedures (UDDP) to automate custom processes by creating a procedure from the start by inserting the required phases, steps, and variables. • Disaster Recovery through Site Guard to automate complete site failover. <p>Note: Usage of Site Guard is licensed separately for Oracle Database and WebLogic Server via the Database Lifecycle Management Pack for the database tier and WebLogic Server Management Pack Enterprise Edition for the middleware tier.</p> <p>With the purchase of the Configuration Management Pack for Applications you also are entitled to the following features. These features are restricted to the host software and hardware configurations and deployments for Oracle and non-Oracle software, excluding the Oracle Database.</p> <ul style="list-style-type: none"> • Self Update to 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). <p>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.</p>

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Links	<p>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.</p> <p>The following are the licensed pages, links, features and functions that can be use with an existing Configuration Management Pack for Applications License:</p> <p>Configuration Search</p> <ul style="list-style-type: none"> From the Enterprise menu, select 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. <p>Configuration Instance Browser</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets, and then select a target, excluding Oracle Database. From the Target home page, select the drop-down under the Target Type then select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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> <ul style="list-style-type: none"> 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.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Links (continued)	<p>Configuration Topology</p> <ul style="list-style-type: none"> 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 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>Configuration Save</p> <ul style="list-style-type: none"> From the Enterprise menu, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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> <ul style="list-style-type: none"> From the Enterprise menu, select 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>User Defined Deployment Procedures (UDDP)</p> <ul style="list-style-type: none"> From the Enterprise menu, select Provisioning and Patching, and then select Procedure Library. On the Provisioning Library page, from the list of actions, the Create New option is licensed as part of the Configuration Management Pack for Applications.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed CLI Verbs	<p>The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of the Configuration Management Pack for Applications:</p> <pre>confirm_instance describe_instance describe_procedure_input get_executions get_instance_data get_instance_status get_instances get_procedure_types get_procedure_xml get_procedures get_retry_argument ignore_instance reschedule_instance resume_instance save_procedure stop_instance submit_procedure suspend_instance update_and_retry_step update_procedure_input</pre>
Configuration Management Pack for Applications	Licensed Reports	<p>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 as part of this pack.</p> <p>To access the reports, go to the Enterprise Manager home page, and from the Enterprise menu, select Reports, and then select either Information Publisher Reports or BI Publisher Enterprise Reports.</p> <p>The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of the Configuration Management Pack for Applications:</p> <ul style="list-style-type: none"> • Compliance • Configuration <p>The following reporting areas, reports, and sub-reports under BI Publisher Enterprise Reports are licensed as part of the Configuration Management Pack for Applications:</p> <ul style="list-style-type: none"> • Compliance • Configuration

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Configuration Repository Views	<p>The following Configuration repository views are part of the Configuration Management Pack for Applications:</p> <pre> MGMT\$CCS_DATA MGMT\$CCS_DATA_SOURCE MGMT\$CCS_DATA_SOURCE_VISIBLE MGMT\$CCS_DATA_VISIBLE MGMT\$CS_ASM_DISKGRP_SETTINGS MGMT\$CS_DB_CONTROL_FILE_COUNT MGMT\$CS_DB_INIT_PARAMS MGMT\$CS_DB_RBS_IN_SYSTEM MGMT\$CS_DB_REC_SEG_SETTINGS MGMT\$CS_DB_REC_TS_SETTINGS MGMT\$CS_DB_REC_USER_SETTINGS MGMT\$CS_DB_REDO_LOG_COUNT MGMT\$CS_DB_REDO_LOGS MGMT\$CS_DB_TABLESPACES MGMT\$CS_DB_TBSP_SEGSPACE_MGMT MGMT\$CS_FEATURE_USAGE MGMT\$CS_HA_INFO MGMT\$ECM_CURRENT_SNAPSHOTS MGMT\$ECM_VISIBLE_SNAPSHOTS MGMT\$HW_CPU_DETAILS MGMT\$HW_IO_DEVICES MGMT\$HW_NIC_BONDS MGMT\$J2EE_APPLICATION MGMT\$J2EEAPP_EJBCOMPONENT MGMT\$J2EEAPP_JRFWS MGMT\$J2EEAPP_JRFWSOPER MGMT\$J2EEAPP_JRFWSPOLICY MGMT\$J2EEAPP_JRFWSPORT MGMT\$J2EEAPP_WEBAPPCOMPONENT MGMT\$J2EEAPP_WSCONFIG </pre>

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Oracle Home Patching Repository Views	<p>The following Oracle Home Patching repository views are part of the Configuration Management Pack for Applications:</p> <p>MGMT\$OH_CLONE_PROPERTIES MGMT\$OH_COMPONENT MGMT\$OH_COMP_DEP_RULE MGMT\$OH_COMP_INST_TYPE MGMT\$OH_CRS_NODES MGMT\$OH_DEP_HOMES MGMT\$OH_FILE MGMT\$OH_HOME_INFO MGMT\$OH_INSTALLED_TARGETS MGMT\$OH_INV_SUMMARY MGMT\$OH_PATCH MGMT\$OH_PATCHED_COMPONENT MGMT\$OH_PATCHED_FILE MGMT\$OH_PATCHSET MGMT\$OH_PATCH_FIXED_BUG MGMT\$OH_VERSIONED_PATCHV MGMT\$CPF_ADVISORY_INFO MGMT\$CPF_HOMES_INFO MGMT\$CPF_PATCH_INFO MGMT\$EM_HOMES_PLATFORM MGMT\$HOMES_AFFECTED MGMT\$PATCH_ADVISORIES MGMT\$APPL_PATCH_AND_PATCHSET MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS</p>
Configuration Management Pack for Applications	Licensed Compliance Repository Views	<p>The following Compliance repository views are part of the Configuration Management Pack for Applications:</p> <p>MGMT\$COMPLIANCE_STANDARD_RULE MGMT\$COMPLIANCE_STANDARD MGMT\$COMPLIANCE_STANDARD_GROUP MGMT\$CS_EVAL_SUMMARY MGMT\$COMPOSITE_CS_EVAL_SUMMARY MGMT\$CS_ASM_DISKGRP_SETTINGS MGMT\$CS_DB_CONTROL_FILE_COUNT MGMT\$CS_DB_INIT_PARAMS MGMT\$CS_DB_RBS_IN_SYSTEM MGMT\$CS_DB_REC_SEG_SETTINGS MGMT\$CS_DB_REC_TS_SETTINGS MGMT\$CS_DB_REC_USER_SETTINGS MGMT\$CS_DB_REDO_LOG_COUNT MGMT\$CS_DB_REDO_LOGS MGMT\$CS_DB_TABLESPACES MGMT\$CS_DB_TBSP_SEGSPACE_MGMT MGMT\$CS_FEATURE_USAGE MGMT\$CS_HA_INFO MGMT\$CS_GROUP_EVAL_SUMMARY MGMT\$CS_RULE_EVAL_SUMMARY MGMT\$CS_TARGET_ASSOC MGMT\$CCC_ALL_OBSERVATIONS MGMT\$CCC_ALL_OBS_BUNDLES MGMT\$CCC_DIAG_ANALYTICS MGMT\$CCC_DIAG_QUEUEBACKLOG</p>

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Client Configuration Repository Views	<p>The following Client Configuration repository views are part of the Configuration Management Pack for Applications:</p> <p>MGMT\$CSA_COLLECTIONS MGMT\$CSA_FAILED MGMT\$CSA_HOST_OS_COMPONENTS MGMT\$CSA_HOST_SW MGMT\$CSA_HOST_COOKIES MGMT\$CSA_HOST_CUSTOM MGMT\$CSA_HOST_RULES MGMT\$CSA_HOST_CPUS MGMT\$CSA_HOST_IOCARDS MGMT\$CSA_HOST_NICS MGMT\$CSA_HOST_OS_PROPERTIES MGMT\$CSA_HOST_OS_FILESYSEMS MGMT\$ECM_CONFIG_HISTORY</p>
Configuration Management Pack for Applications	Previous Configuration Management Packs	<p>If you have an older Configuration Management pack including:</p> <ul style="list-style-type: none"> • Configuration Management Pack • Configuration Management Pack for Oracle Middleware • Configuration Management Pack for Non-Oracle Systems <p>You may use all of the features licensed as part of the Configuration Management Pack for Applications only against the previously licensed targets except for the following:</p> <ul style="list-style-type: none"> • Application Configuration Console • Configuration Collection Extensibility • Creating a custom Comparison Template • Using a Comparison Template as part of a Configuration Comparison specification

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, Apache HTTP Server and Apache Tomcat), and provides in-depth diagnostics.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Components	<p>The Management Pack for Non-Oracle Middleware includes the following components:</p> <ul style="list-style-type: none"> • Enterprise Manager system monitoring functionality for IBM WebSphere Application Servers, JBoss Application Servers, Apache HTTP Server, and Apache Tomcat. • Enterprise Manager monitoring plug-ins for Microsoft Internet Information Services. • Oracle Support Document 2117445.1 (EM 13.x: Java and OS platform support for JVM Diagnostics (JVMD) Agent in Cloud Control) can be found at: https://support.oracle.com/rs?type=doc&id=2117445.1 • Java Mission Control (JMC), which is applicable for Application Servers and standalone Java applications. • Configuration Management: track inventory, configuration drift and detailed configuration search (excluding all versions of JBoss AS and JBoss EAP). • Configuration extensions collect details about targets then the Configuration Management features are licensable. <div style="border: 1px solid #0070C0; padding: 5px; margin-top: 10px;"> <p> Note: Configuration Management features do not apply to JBoss Application Server nor JBoss Enterprise Application Platform.</p> </div>

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Features	<p>The Management Pack for Non-Oracle Middleware includes the following features:</p> <ul style="list-style-type: none"> • Blackouts suspend monitoring on targets to support scheduled maintenance periods. • Configuration Collection Extensibility to create custom configuration collections and extend current collections • Configuration Compare, one-to-one and one-to-many (excluding all versions of JBoss AS and JBoss EAP). • Configuration History to report on configuration or relations changes during a specific time frame (excluding all versions of JBoss AS and JBoss EAP). • Configuration Instance Browser to view configuration items and associations associated with a target (excluding all versions of JBoss AS and JBoss EAP). • Configuration Save for reference, baselines, or Gold Standards (excluding all versions of JBoss AS and JBoss EAP). • Configuration Search on a specific target or across relationships (excluding all versions of JBoss AS and JBoss EAP). <p>Configuration Topology of a specified target and its dependencies along with other targets that are dependent on it (excluding all versions of JBoss AS and JBoss EAP).</p> <ul style="list-style-type: none"> • Management Connectors open help desk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems. • Memory leak detection and analysis in production environments. • Metric and Alert/Event History • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • 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 to 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.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Features	<ul style="list-style-type: none"> Performance monitoring provides real-time and historical performance monitoring. Real-time monitoring of JVM provides a summary view of resource bottlenecks affecting performance, such as the database, I/O, CPU, and locks. Trace in-flight transactions to view request performance problems in real time. Analyze time spent in each resource bottleneck (extend to each Java method). User Defined Deployment Procedures (UDDP) to automate custom processes by creating a procedure from the start by inserting the required phases, steps, and variables.
Management Pack for non-Oracle Middleware	Restricted-Use License	<p>Management Pack for Non-Oracle Middleware includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.</p> <p>See Enterprise Manager Cloud Control Service Level Management in End-User Monitoring for more information.</p>

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 table describes this management pack offered by Enterprise Manager:

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
Microsoft Active Directory	Documentation Resources	See <i>Microsoft Active Directory Overview</i> in the <i>Enterprise Manager Cloud Control Microsoft Active Directory Plug-in User's Guide</i> .

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
Microsoft Active Directory	Features	<p>The following features are available for the Microsoft Active Directory plug-in:</p> <ul style="list-style-type: none"> • 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 • Configuration Extensions to allow for addition of custom configuration files.
System Monitoring Plug-ins for non-Oracle Middleware	Licensed CLI Verbs	<p>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:</p> <ul style="list-style-type: none"> • <code>add_target</code> <p>The internal name to be used with the <code>add_target</code> verb is <code>active_directory</code>.</p>

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 (ASE)

The following table describes this management pack offered by Enterprise Manager:

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
System Monitoring Plug-ins for non-Oracle Database	Features	<p>The following features are available for these plug-ins:</p> <ul style="list-style-type: none"> • Performance monitoring and trending • Help desk (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 • User Defined Deployment Procedures (UDDP): Automate custom processes by creating a procedure from the start by inserting the required phases, steps, and variables.
System Monitoring Plug-ins for non-Oracle Database	Licensed Links	<p>To use these features, you must license the System Monitoring Plug-ins for Non-Oracle Database.</p> <p>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.</p> <p>In the upper right corner of the page, click Setup, then select Add Target, and finally Add Targets Manually. 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:</p> <ul style="list-style-type: none"> • Microsoft SQL Server • IBM DB2 Database • Sybase Adaptive Server Enterprise

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
System Monitoring Plug-ins for non-Oracle Database	Licensed CLI Verbs	<p>The following command line interface (CLI) verb is licensed as part of the System Monitoring Plug-in for Non-Oracle Databases:</p> <ul style="list-style-type: none">• <code>add_target</code> <p>The internal names to be used with the <code>add_target</code> verb are:</p> <ul style="list-style-type: none">• <code>microsoft_sqlserver_database</code>• <code>ibm_db2_database</code>• <code>sybase_ase</code>

7

Packaged Application Management

This chapter describes the licensed features and access points of the Application products available for Oracle Enterprise Manager. The following management packs are included:

- [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](#)
- [Application Management Suite for PeopleSoft Enterprise](#)

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 13c)
- Oracle Real User Experience Insight (RUEI)

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 table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Restricted-Use License	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 perform neither functional nor load tests against the Siebel application.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Features	<p>The Application Management Suite for Siebel includes the following features:</p> <ul style="list-style-type: none"> • Automatic discovery of 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 to track configuration parameters, take configuration snapshots, and compare configurations • Event log analysis to find relevant log files to troubleshoot problems faster. • Management Connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems. • Metric and Alert/Event History • Metric Extensions to 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 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 to 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. • Real user monitoring for comprehensive insights on how end-users use the application and the experience that is delivered. • Service level management to 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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Support for Real User Monitoring	<p data-bbox="764 302 1382 499">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.</p> <p data-bbox="764 520 1382 743">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.</p> <p data-bbox="764 764 1382 1071">All the capabilities for Oracle Real User Experience Insight as documented in 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 High Interactivity (HI), 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.</p> <p data-bbox="764 1092 862 1119">Features</p> <ul data-bbox="764 1129 1382 1362" style="list-style-type: none"><li data-bbox="764 1129 1382 1180">• Provides an out-of-the-box real-user monitoring solution for Siebel applications.<li data-bbox="764 1190 1382 1241">• Provides out-of-box translation and reporting of error messages in the user's window.<li data-bbox="764 1251 1382 1302">• Enables application managers to set up KPIs for critical packaged applications.<li data-bbox="764 1312 1382 1362">• Enables specification and monitoring of real-user business transactions.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Licensed Links	<p>The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for Siebel.</p> <p>Siebel System Targets page</p> <ul style="list-style-type: none"> From the Targets menu, select Siebel. Select Enterprise from the View drop-down list. This page is a licensed feature of the Application Management Suite for Siebel. <p>Add Siebel Enterprise page</p> <ul style="list-style-type: none"> From the Targets menu, select 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. <p>Siebel Enterprise Home</p> <ul style="list-style-type: none"> From the Targets menu, select 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. <p>Siebel Server Home</p> <ul style="list-style-type: none"> From the Targets menu, select 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. <p>Siebel Enterprise resultant page</p> <ul style="list-style-type: none"> From the Targets menu, select 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. <p>Siebel Gateway Server Home Page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, click Siebel Gateway Server under Applications. The resultant page contents are licensed features. <p>Siebel Component Page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, click Siebel Component under Applications. The resultant page contents are licensed features. <p>Siebel Database Repository Page</p> <ul style="list-style-type: none"> From the Targets menu, select All Targets. On the All Targets page, click Siebel Database Repository under Applications. The resultant page contents are licensed features.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Support for Service Level Management (SLM)	<p>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.</p> <p>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.</p> <p>See Enterprise Manager Cloud Control Service Level Management in End-User Monitoring for more information.</p>
Application Management Suite for Siebel	SLM Licensed CLI Verbs	<p>The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for Siebel:</p> <pre>emcli apply_template_tests emcli create_service emcli add_target</pre>
Application Management Suite for Siebel	Support for Configuration Management	<p>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:</p> <ul style="list-style-type: none">• 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)• Siebel Application Service (SI)

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Features	<p>Configuration Management features of the Application Management Suite for Siebel enable users to:</p> <ul style="list-style-type: none">• 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 <p>Application Management Suite for Siebel provides comprehensive configuration management capabilities for operating system targets and Siebel application targets as specified above.</p>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Links	<p>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).</p> <p>All Targets Policy Violations links</p> <ul style="list-style-type: none"> From the Enterprise Summary page, all links in the All Targets Policy Violations section are licensed. <p>Hardware and Operating System related information</p> <ul style="list-style-type: none"> 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. <p>Security Policy Violations links</p> <ul style="list-style-type: none"> From the Enterprise Summary page, all links in the Security Policy Violations section are licensed. <p>Configuration section links</p> <ul style="list-style-type: none"> From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in the Configuration section are licensed. <p>Client Configuration section links</p> <ul style="list-style-type: none"> From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in the Client Configuration section are licensed. <p>Policy Violation page links</p> <ul style="list-style-type: none"> 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. <p>Security at a Glance host links</p> <ul style="list-style-type: none"> 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. <p>Policy Violations link and Compliance Score (%)</p> <ul style="list-style-type: none"> From the Targets menu, select Hosts. On the Hosts page, these links are licensed. <p>Configuration section links, Policy Violations section links, Security section links, Deployments link, and Metric and Policy Settings link (Related Links)</p>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Links (continued)	<ul style="list-style-type: none"> From the Hosts page, click a specific host to display the Host Home page. These links are licensed. <p>Configuration page</p> <ul style="list-style-type: none"> From the Host page, click the Configuration tab. All features, links, and information on the page are licensed. <p>Policy Violations link</p> <ul style="list-style-type: none"> From the Targets menu, select Systems. On the Systems page, this link is licensed. From the Targets menu, select Groups. On the Groups page, this link is licensed. <p>Configuration Changes, Policy Violations, Security Policy Violations sections</p> <ul style="list-style-type: none"> From the Targets menu, select Groups. Select a group. On the Group Home page, all links in these sections are licensed. <p>Configuration Searches for host and operating system</p> <ul style="list-style-type: none"> From the Groups home page, click the Administration tab. This feature is licensed. <p>Policy Violations column</p> <ul style="list-style-type: none"> From the Groups home page, click the Members tab. All links and information in this column is licensed
Application Management Suite for Siebel	Configuration Management Licensed Reports	<p>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.</p> <ul style="list-style-type: none"> All reports under Deployment and Configuration Monitoring reports: <ul style="list-style-type: none"> Alerts and Policy Violations Disabled Policies Security reports: <ul style="list-style-type: none"> Security Policy Overview

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Policy Repository Views	<p>The following policy repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:</p> <p>Policy Definition Views</p> <pre>mgmt\$policies mgmt\$policy_parameters mgmt\$policy_violation_ctxt mgmt\$policy_viol_annotations mgmt\$policy_viol_notif_log</pre> <p>Policy Association Views</p> <pre>mgmt\$target_policies mgmt\$target_policy_settings mgmt\$target_policy_eval_sum mgmt\$target_compliance_score</pre> <p>Policy Violation Views</p> <pre>mgmt\$policy_violation_current mgmt\$policy_violation_history mgmt\$policy_violation_context</pre>
Application Management Suite for Siebel	Configuration Management Licensed Patching Repository Views	<p>The following patching repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:</p> <p>Linux Patching</p> <pre>MGMT\$HOSTPATCH_HOSTS MGMT\$HOSTPATCH_GROUPS MGMT\$HOSTPATCH_GRP_COMPL_HIST MGMT\$HOSTPATCH_HOST_COMPL</pre> <p>Oracle Home Patching</p> <pre>MGMT\$CPF_ADVISORY_INFO MGMT\$CPF_HOMES_INFO MGMT\$CPF_PATCH_INFO MGMT\$EM_HOMES_PLATFORM MGMT\$HOMES_AFFECTED MGMT\$PATCH_ADVISORIES MGMT\$APPL_PATCH_AND_PATCHSET MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS</pre>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Security Repository Views	<p>The following security repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:</p> <pre> MGMT\$ESA_ALL_PRIVS_REPORT MGMT\$ESA_ANY_DICT_REPORT MGMT\$ESA_ANY_PRIV_REPORT MGMT\$ESA_AUDIT_SYSTEM_REPORT MGMT\$ESA_BECOME_USER_REPORT MGMT\$ESA_CATALOG_REPORT MGMT\$ESA_CONN_PRIV_REPORT MGMT\$ESA_CREATE_PRIV_REPORT MGMT\$ESA_DBA_GROUP_REPORT MGMT\$ESA_DBA_ROLE_REPORT MGMT\$ESA_DIRECT_PRIV_REPORT MGMT\$ESA_EXMPT_ACCESS_REPORT MGMT\$ESA_KEY_OBJECTS_REPORT MGMT\$ESA_OH_OWNERSHIP_REPORT MGMT\$ESA_OH_PERMISSION_REPORT MGMT\$ESA_POWER_PRIV_REPORT MGMT\$ESA_PUB_PRIV_REPORT MGMT\$ESA_SYS_PUB_PKG_REPORT MGMT\$ESA_TABSP_OWNERS_REPORT MGMT\$ESA_TRC_AUD_PERM_REPORT MGMT\$ESA_WITH_ADMIN_REPORT MGMT\$ESA_WITH_GRANT_REPORT </pre>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Configuration Repository Views	<p>The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:</p> <p>Configuration Views</p> <pre>mgmt\$db_tablespaces mgmt\$db_datafiles mgmt\$db_controlfiles</pre> <p>Client Configuration Views</p> <pre>MGMT\$CSA_COLLECTIONS MGMT\$CSA_FAILED MGMT\$CSA_HOST_OS_COMPONENTS MGMT\$CSA_HOST_SW MGMT\$CSA_HOST_COOKIES MGMT\$CSA_HOST_CUSTOM MGMT\$CSA_HOST_RULES MGMT\$CSA_HOST_CPUS MGMT\$CSA_HOST_IOCARDS MGMT\$CSA_HOST_NICS MGMT\$CSA_HOST_OS_PROPERTIES MGMT\$CSA_HOST_OS_FILESYSTEMS MGMT\$ECM_CONFIG_HISTORY MGMT\$ECM_CONFIG_HISTORY_KEY1 MGMT\$ECM_CONFIG_HISTORY_KEY2 MGMT\$ECM_CONFIG_HISTORY_KEY3 MGMT\$ECM_CONFIG_HISTORY_KEY4 MGMT\$ECM_CONFIG_HISTORY_KEY5 MGMT\$ECM_CONFIG_HISTORY_KEY6 MGMT\$HW_NIC MGMT\$OS_COMPONENTS MGMT\$OS_FS_MOUNT MGMT\$OS_HW_SUMMARY MGMT\$OS_PATCHES MGMT\$OS_SUMMARY MGMT\$SOFTWARE_COMP_PATCHSET MGMT\$SOFTWARE_COMPONENT_ONEOFF MGMT\$SOFTWARE_COMPONENTS MGMT\$SOFTWARE_DEPENDENCIES MGMT\$SOFTWARE_HOMES MGMT\$SOFTWARE_ONEOFF_PATCHES MGMT\$SOFTWARE_OTHERS MGMT\$SOFTWARE_PATCHES_IN_HOMES MGMT\$SOFTWARE_PATCHSETS</pre>
Application Management Suite for Siebel	Support for Oracle HTTP Server	<p>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.</p> <ul style="list-style-type: none"> 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.

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 table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Features	<p>The Application Management Pack for Fusion Applications provides features under four different categories:</p> <ul style="list-style-type: none">• Discovery and Monitoring• Applications Performance Management• Middleware Management• Technical Configuration Management• Life Cycle Automation <p>The Application Management Pack for Fusion Applications includes the following features:</p> <ul style="list-style-type: none">• Automatic discovery of Fusion applications and underlying Fusion Middleware topology. Create system and services targets with all of the associated infrastructure components.• Backup and recovery of Fusion Applications and related Database configurations. Restore configurations from the backup.• Blackouts suspend monitoring on targets to support scheduled maintenance periods.• Change Activity Plans provide the ability to plan, track in real time, and execute data-centerwide change activities. Activities include: PSU patch rollouts, database consolidation to Exadata, and so on.• Configuration management to track configuration parameters, take configuration snapshots, and compare configurations.• Java Diagnostics of the Java problem at the JVM level.• Log analysis to find relevant log files to troubleshoot problems faster.• Management Connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems.• Metric and Alert/Event History• Metric Extensions to create new metrics to monitor conditions specific to customer environments.• Monitoring to receive real-time metrics, historical data, and alerts for Fusion applications and Fusion Middleware targets.• 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 to 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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Features (continued)	<p>The Application Management Pack for Fusion Applications includes the following features:</p> <ul style="list-style-type: none"> • Problem Flow Analysis to diagnose and identify the root cause of the Fusion Applications incidents. • Scale Out to create Fusion Applications Instance from an existing Instance or add more WebLogic servers to existing WebLogic clusters. • Service level management to monitor Fusion applications using beacon transactions and service dashboards. • Support Workbench to 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 of the Fusion Applications deployment from Configuration and Runtime routing perspective. This also provides high level information about health of various Fusion Application targets.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Licensed Links	<p>The following information describes the Enterprise Manager links that require licensing of the Application Management Pack for Oracle Fusion Applications:</p> <p>Fusion Instance page</p> <ul style="list-style-type: none"> From the Targets menu, select Fusion Applications. This page and all related links in this page are licensed. <p>Add Fusion Instance page</p> <ul style="list-style-type: none"> From the Targets menu, select Fusion Applications. From the Fusion Instance page, click Add Fusion Instance. This page and all subsequent pages within the process are licensed features. <p>Fusion Instance Home</p> <ul style="list-style-type: none"> From the Targets menu, select 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. <p>Fusion Product Family Home</p> <ul style="list-style-type: none"> From the Targets menu, select Fusion Applications. From the Fusion Instance page, expand any Fusion Instance and click any Fusion Product Family link. This page and all subsequent pages accessed through the Home Page are licensed features. <p>Fusion Product Home</p> <ul style="list-style-type: none"> From the Targets menu, select Fusion Applications. From the Fusion Instance page, expand any Fusion Instance and click any Fusion Product link. This page and all subsequent pages accessed through the Home Page are licensed features. <p>Change Activity Plans</p> <ul style="list-style-type: none"> From the Enterprise menu, select Configuration. The Change Activity Plans and My Tasks items are licensable as part of the Application Management Pack for Fusion Applications. <p>Middleware</p> <ul style="list-style-type: none"> From the Targets menu, select Middleware. Any Oracle Fusion Middleware links related to Fusion Applications deployment are licensed feature of the Application Management Pack for Fusion Applications.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Support for Service Level Management (SLM)	<p>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.</p> <p>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.</p> <p>See Enterprise Manager Cloud Control Service Level Management in End-User Monitoring for more information.</p>
Application Management Pack for Fusion Applications	SLM Licensed CLI Verbs	<p>The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Pack for Fusion Applications:</p> <pre>emcli apply_template_tests emcli create_service emcli add_target</pre>
Application Management Pack for Fusion Applications	Support for Middleware Management	<p>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 Oracle Middleware Enterprise Management .</p> <p>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).</p> <p>Refer to Oracle Middleware Enterprise Management for a detailed explanation of features, capabilities, and licensed links.</p>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Support for Configuration Management	<p>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:</p> <ul style="list-style-type: none"> • Oracle Fusion Instance • Oracle Fusion Product Family • Oracle Fusion Product • Oracle Fusion Cluster J2EE Application • Oracle Fusion J2EE Application • Oracle WebLogic Cluster • Oracle WebLogic Server • Oracle HTTP Server • Cluster J2EE Application • J2EE Application • Fusion Database Repository • Java Virtual Machine
Application Management Pack for Fusion Applications	Configuration Management Features	<p>Configuration Management features of the Application Management Pack for Fusion Application enable users to:</p> <ul style="list-style-type: none"> • 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 <p>Application Management Pack for Fusion Applications provides comprehensive configuration management capabilities for operating system targets and Fusion application targets as specified above.</p>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Configuration Management Licensed Links	<p>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.</p> <p>All Targets Policy Violations links</p> <ul style="list-style-type: none"> From the Enterprise Summary page, all links in the All Targets Policy Violations section are licensed. <p>Hardware and Operating System related information</p> <ul style="list-style-type: none"> 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. <p>Security Policy Violations links</p> <ul style="list-style-type: none"> From the Enterprise Summary page, all links in the Security Policy Violations section are licensed. <p>Configuration section links</p> <ul style="list-style-type: none"> From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in the Configuration section are licensed. <p>Client Configuration section links</p> <ul style="list-style-type: none"> From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in the Client Configuration section are licensed. <p>Configuration section links, Policy Violations section links, Security section links, Deployments link, and Metric and Policy Settings link (Related Links)</p> <ul style="list-style-type: none"> From the Hosts page, click a specific host to display the Host Home page. These links are licensed. <p>Policy Violations link</p> <ul style="list-style-type: none"> From the Targets menu, select 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. <p>Security at a Glance host links</p> <ul style="list-style-type: none"> 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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Configuration Management Licensed Links (continued)	<p>Policy Violations link and Compliance Score (%)</p> <ul style="list-style-type: none"> From the Targets menu, select Hosts. On the Hosts page, these links are licensed. <p>Configuration page</p> <ul style="list-style-type: none"> From the Host page, click the Configuration tab. All features, links, and information on the page are licensed. <p>Policy Violation page link</p> <ul style="list-style-type: none"> 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. <p>Configuration Changes, Policy Violations, Security Policy Violations sections</p> <ul style="list-style-type: none"> From the Targets menu, select Groups. Select a group. On the Group Home page, all links in these sections are licensed. <p>Configuration Searches for host and operating system</p> <ul style="list-style-type: none"> From the Groups home page, click the Administration tab. This feature is licensed. <p>Policy Violations column</p> <ul style="list-style-type: none"> From the Groups home page, click the Members tab. All links and information in this column is licensed.
Application Management Pack for Fusion Applications	Configuration Management Licensed Reports	<p>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.</p> <ul style="list-style-type: none"> All reports under Deployment and Configuration Monitoring reports: <ul style="list-style-type: none"> Alerts and Policy Violations Disabled Policies Security reports: <ul style="list-style-type: none"> Security Policy Overview

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Configuration Management Licensed Policy Repository Views	<p>The following policy repository views are licensed features of Configuration Management within the Application Management Pack for Fusion Applications:</p> <p>Policy Definition Views</p> <pre>mgmt\$policies mgmt\$policy_parameters mgmt\$policy_violation_ctxt mgmt\$policy_viol_annotations mgmt\$policy_viol_notif_log</pre> <p>Policy Association Views</p> <pre>mgmt\$target_policies mgmt\$target_policy_settings mgmt\$target_policy_eval_sum mgmt\$target_compliance_score</pre> <p>Policy Violation Views</p> <pre>mgmt\$policy_violation_current mgmt\$policy_violation_history mgmt\$policy_violation_context</pre>
Application Management Pack for Fusion Applications	Configuration Management Licensed Patching Repository Views	<p>The following patching repository views are licensed features of Configuration Management within the Application Management Pack for Fusion Applications:</p> <p>Linux Patching</p> <pre>MGMT\$HOSTPATCH_HOSTS MGMT\$HOSTPATCH_GROUPS MGMT\$HOSTPATCH_GRP_COMPL_HIST MGMT\$HOSTPATCH_HOST_COMPL</pre> <p>Oracle Home Patching</p> <pre>MGMT\$CPF_ADVISORY_INFO MGMT\$CPF_HOMES_INFO MGMT\$CPF_PATCH_INFO MGMT\$EM_HOMES_PLATFORM MGMT\$HOMES_AFFECTED MGMT\$PATCH_ADVISORIES MGMT\$APPL_PATCH_AND_PATCHSET MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS</pre>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Configuration Management Licensed Configuration Repository Views	<p>The following configuration repository views are licensed features of Configuration Management within the Application Management Pack for Fusion Applications:</p> <p>Configuration Views</p> <pre> mgmt\$db_tablespaces mgmt\$db_datafiles mgmt\$db_controlfiles </pre> <p>Client Configuration Views</p> <pre> MGMT\$CSA_COLLECTIONS MGMT\$CSA_FAILED MGMT\$CSA_HOST_OS_COMPONENTS MGMT\$CSA_HOST_SW MGMT\$CSA_HOST_COOKIES MGMT\$CSA_HOST_CUSTOM MGMT\$CSA_HOST_RULES MGMT\$CSA_HOST_CPUS MGMT\$CSA_HOST_IOCARDS MGMT\$CSA_HOST_NICS MGMT\$CSA_HOST_OS_PROPERTIES MGMT\$CSA_HOST_OS_FILESYSTEMS MGMT\$ECM_CONFIG_HISTORY MGMT\$ECM_CONFIG_HISTORY_KEY1 MGMT\$ECM_CONFIG_HISTORY_KEY2 MGMT\$ECM_CONFIG_HISTORY_KEY3 MGMT\$ECM_CONFIG_HISTORY_KEY4 MGMT\$ECM_CONFIG_HISTORY_KEY5 MGMT\$ECM_CONFIG_HISTORY_KEY6 MGMT\$HW_NIC MGMT\$OS_COMPONENTS MGMT\$OS_FS_MOUNT MGMT\$OS_HW_SUMMARY MGMT\$OS_PATCHES MGMT\$OS_SUMMARY MGMT\$SOFTWARE_COMP_PATCHSET MGMT\$SOFTWARE_COMPONENT_ONEOFF MGMT\$SOFTWARE_COMPONENTS MGMT\$SOFTWARE_DEPENDENCIES MGMT\$SOFTWARE_HOMES MGMT\$SOFTWARE_ONEOFF_PATCHES MGMT\$SOFTWARE_OTHERS MGMT\$SOFTWARE_PATCHES_IN_HOMES MGMT\$SOFTWARE_PATCHSETS </pre>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Configuration Management Licensed Security Repository Views	<p>The following security repository views are licensed features of Configuration Management within the Application Management Pack for Fusion Applications:</p> <pre> MGMT\$ESA_ALL_PRIVS_REPORT MGMT\$ESA_ANY_DICT_REPORT MGMT\$ESA_ANY_PRIV_REPORT MGMT\$ESA_AUDIT_SYSTEM_REPORT MGMT\$ESA_BECOME_USER_REPORT MGMT\$ESA_CATALOG_REPORT MGMT\$ESA_CONN_PRIV_REPORT MGMT\$ESA_CREATE_PRIV_REPORT MGMT\$ESA_DBA_GROUP_REPORT MGMT\$ESA_DBA_ROLE_REPORT MGMT\$ESA_DIRECT_PRIV_REPORT MGMT\$ESA_EXMPT_ACCESS_REPORT MGMT\$ESA_KEY_OBJECTS_REPORT MGMT\$ESA_OH_OWNERSHIP_REPORT MGMT\$ESA_OH_PERMISSION_REPORT MGMT\$ESA_POWER_PRIV_REPORT MGMT\$ESA_PUB_PRIV_REPORT MGMT\$ESA_SYS_PUB_PKG_REPORT MGMT\$ESA_TABSP_OWNERS_REPORT MGMT\$ESA_TRC_AUD_PERM_REPORT MGMT\$ESA_WITH_ADMIN_REPORT MGMT\$ESA_WITH_GRANT_REPORT </pre>

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 following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Fusion Applications	Features	<p>The Application Management Suite for Fusion Applications provides the following features, limited to Oracle Fusion Applications environments:</p> <ul style="list-style-type: none"> Real User Experience Insight (RUEI), with Oracle Fusion Apps accelerator.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Fusion Applications	Support for Real User Experience Insight (RUEI)	<p>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.</p> <p>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 (RUEI) as documented in 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.</p>
Application Management Suite for Fusion Applications	RUEI Features	<ul style="list-style-type: none"> • 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.
Application Management Suite for Fusion Applications	Configuration Management Licensed Reports	<p>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.</p> <ul style="list-style-type: none"> • All reports under Deployment and Configuration • Monitoring reports: <ul style="list-style-type: none"> Alerts and Policy Violations Disabled Policies • Security reports: <ul style="list-style-type: none"> Security Policy Overview

Application Management Suite for Oracle E-Business Suite

This product offers capabilities to manage Oracle E-Business Suite environments on Oracle Cloud and/or on-premise including automation for provisioning new environments, lift & shift, backup, restore, and comprehensive change management functions.

The following table lists some of the key features of Application Management suite for Oracle E-Business suite:

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Features	<p>The Application Management Suite for Oracle E-Business Suite includes the following features:</p> <ul style="list-style-type: none"> • Automatic discovery of 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 involves a hierarchical approval process 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, and summaries of recent activity. • Cloning to automate cloning, create and manage cloned images. • Concurrent Processing Dashboard provides a complete picture of concurrent processing on your system, both current activities and usage statistics. Monitor related activities for concurrent managers and concurrent programs. • Configuration management to 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. • Customization Discovery and Reporting to view and generate reports on the inventory of customizations in a given Oracle E-Business Suite environment. Customizations are organized by specific Oracle E-Business Suite module and by customization type. This inventory of customizations can help in the planning process for Oracle E-Business Suite upgrades. • Monitoring and diagnostics to receive real-time metrics and historical data and alert notifications. Access JVM statistics. Run E-Business Suite diagnostic tests through Oracle Applications Manager integration. • Metric and Alert/Event History • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring of real-time metrics, historical data, and alerts for Fusion applications and Fusion Middleware targets. • Monitoring Templates encapsulate target monitoring settings and can later be applied against many targets.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Features (continued)	<ul style="list-style-type: none"> • Template Collections (with administration groups) automate the deployment of management settings on targets as they join the group. • Notifications to 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 to manually or automatically download and deploy patches across single or multiple Oracle E-Business Suite instances from a single console. • Real user monitoring on how end users use the application and the experience that is delivered. • Service level management of Oracle E-Business Suite applications using beacon transactions and service dashboards. • User Monitoring of database session performance issues for Concurrent Programs requests, Forms sessions, and Oracle Application Framework. • Automated Customization Discovery: <ul style="list-style-type: none"> – Patch Recommendations for E-Business Suite applications, database and applications tier technology. – Automated patch deployments for applications, database and WLS servers. – Automated Cloning of applications with ability to include database cloning as part of the deployment procedure. – Instance administration to allow adding of managed servers, services and apps tier nodes. • Automation of key processes to enable Cloud deployment, monitoring and management of Oracle E-Business Suite using EMCLI. Following is a list of the key automation in the latest release of Application Management Suite: <ul style="list-style-type: none"> – Auto discovery of EBS instances. – Monitoring of EBS targets. – Automated EBS and Database patch recommendations. – Deployment of EBS, Database, and WebLogic patches. – Build and Deploy Custom Packages. – Deploying EBS patches. – Creating Custom Packages.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Support for Real User Experience Insight (RUEI)	All of the capabilities for Oracle Real User Experience Insight as documented in 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.
Application Management Suite for Oracle E-Business Suite	RUEI Features	<ul style="list-style-type: none"> • Automatically discovers Oracle E-Business Suite modules running both an OA and JTT framework, and 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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Licensed Links	<p>The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for Oracle E-Business Suite:</p> <p>All Oracle E-Business Suite Systems page</p> <ul style="list-style-type: none"> From the Targets menu, select Oracle E-Business Suite. This page is licensed. <p>Add All Oracle E-Business Suite Targets page</p> <ul style="list-style-type: none"> From the Targets menu, select Oracle E-Business Suite. From the all Oracle E-Business Suite Systems page, click Add. This page and all subsequent pages within the process are licensed. <p>Oracle E-Business Suite Home Page, Monitoring, Topology pages, Oracle Application Manager, User Monitoring, Start and Stop Services, Service Level Reports, E-Business Suite Dashboard, Configuration, and Compliance</p> <ul style="list-style-type: none"> From the Targets menu, select Oracle E-Business Suite. 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. From the Targets menu, select 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, and Customization Manager</p> <ul style="list-style-type: none"> 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. <p>Oracle E-Business Suite Nodes System Home, Charts, Administration, Components and Topology pages</p> <ul style="list-style-type: none"> From the Targets menu, select 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. <p>Oracle E-Business Suite System Home, Charts, Administration, Components and Topology pages</p> <ul style="list-style-type: none"> From the Targets menu, select Systems. On the Systems page, click the Name column for a system with an Oracle E-Business Suite System type. These pages are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Support for Service Level Management (SLM)	<p>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.</p> <p>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.</p> <p>See Enterprise Manager Cloud Control Service Level Management in End-User Monitoring for more information.</p>
Application Management Suite for Oracle E-Business Suite	SLM Licensed CLI Verbs	<p>The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for Oracle E-Business Suite:</p> <pre data-bbox="764 1094 1089 1178">emcli apply_template_tests emcli create_service emcli add_target</pre>
Application Management Suite for Oracle E-Business Suite	Support for Configuration Management	<p>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:</p> <ul data-bbox="764 1535 1354 1751" style="list-style-type: none"> • Oracle Concurrent Manager • Oracle E-Business Suite • Oracle E-Business Suite Custom Objects Definition • Oracle E-Business Suite System • Oracle E-Business Suite Patch Information Configuration • Oracle E-Business Suite Workflow

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Features	<p>The Configuration Management features of the Application Management Suite for E-Business Suite enable users to:</p> <ul style="list-style-type: none"> • 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 <p>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 Other Infrastructure Management in the Configuration Management Pack for Applications section.</p>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Links	<p>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.</p> <p>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.</p> <p>All Targets Policy Violations section</p> <ul style="list-style-type: none"> On the Enterprise Summary home page, all links in this section are licensed. <p>All Oracle E-Business Suite Targets page</p> <ul style="list-style-type: none"> From the Targets menu, select Oracle Applications. From the all Oracle E-Business Suite Systems page, click Add. This page and all subsequent pages within the process are licensed. <p>Deployment Summary section</p> <ul style="list-style-type: none"> 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. From the Targets menu, select Groups. On the Groups page, click the Administration tab. All Hardware and Operating System related information in this section are licensed. On the Enterprise Summary home page, all Hardware and Operating System related information in this section are licensed. <p>Security Policy Violations section</p> <ul style="list-style-type: none"> On the Enterprise Summary home page, all links in this section are licensed. <p>Configuration section</p> <ul style="list-style-type: none"> From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in this section are licensed. From the Targets menu, select Hosts. On the Hosts page, all links in this section are licensed. <p>Client Configuration section</p> <ul style="list-style-type: none"> From the Enterprise Summary home page, click the Deployments menu. On the Deployments page, all links in this section are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Links (continued)	<p>Policy Violations page</p> <ul style="list-style-type: none"> 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. From the Targets menu, select Hosts. On the Hosts page, all links in this section are licensed. <p>Security at a Glance</p> <ul style="list-style-type: none"> 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. <p>Policy Violations link and Compliance Score (%)</p> <ul style="list-style-type: none"> From the Targets menu, select Hosts. On the Hosts page, these links are licensed. <p>Security section</p> <ul style="list-style-type: none"> From the Targets menu, select Hosts. On the Hosts page, all links in this section are licensed. <p>Deployments link, Metric and Policy Settings link</p> <ul style="list-style-type: none"> From the Targets menu, select Hosts. On the Hosts page, these links under Related Links are licensed. <p>Configuration page</p> <ul style="list-style-type: none"> From the Enterprise Summary home page, click the Configurations menu. All features, links, and information on this page are licensed. <p>Policy Violations link</p> <ul style="list-style-type: none"> From the Targets menu, select Systems. On the Systems page, this link is licensed. From the Targets menu, select Groups. On the Groups page, this link is licensed. <p>Configuration Changes, Policy Violations, Security Policy Violations sections</p> <ul style="list-style-type: none"> From the Targets menu, select Groups. On the Groups page, these sections are licensed. <p>Configuration Searches</p> <ul style="list-style-type: none"> From the Targets menu, select Groups. On the Groups page, click the Administration tab. This feature is licensed. <p>Policy Violations column</p> <ul style="list-style-type: none"> From the Targets menu, select Groups. On the Groups page, click the Members tab. All links and information this column are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Reports	<p>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.</p> <ul style="list-style-type: none"> • All reports under Deployment and Configuration • Monitoring reports: <ul style="list-style-type: none"> Alerts and Policy Violations Disabled Policies • Security reports: <ul style="list-style-type: none"> Security Policy Overview
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Policy Repository Views	<p>The following policy repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:</p> <p>Policy Definition Views</p> <pre> mgmt\$policies mgmt\$policy_parameters mgmt\$policy_violation_ctxt mgmt\$policy_viol_annotations mgmt\$policy_viol_notif_log </pre> <p>Policy Association Views</p> <pre> mgmt\$target_policies mgmt\$target_policy_settings mgmt\$target_policy_eval_sum mgmt\$target_compliance_score </pre> <p>Policy Violation Views</p> <pre> mgmt\$policy_violation_current mgmt\$policy_violation_history mgmt\$policy_violation_context </pre>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Patching Repository Views	<p>The following patching repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:</p> <p>Linux Patching</p> <p>MGMT\$HOSTPATCH_HOSTS MGMT\$HOSTPATCH_GROUPS MGMT\$HOSTPATCH_GRP_COMPL_HIST MGMT\$HOSTPATCH_HOST_COMPL</p> <p>Oracle Home Patching</p> <p>MGMT\$CPF_ADVISORY_INFO MGMT\$CPF_HOMES_INFO MGMT\$CPF_PATCH_INFO MGMT\$EM_HOMES_PLATFORM MGMT\$HOMES_AFFECTED MGMT\$PATCH_ADVISORIES MGMT\$APPL_PATCH_AND_PATCHSET MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS</p>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Configuration Repository Views	<p>The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:</p> <p>Configuration Views</p> <pre> mgmt\$db_tablespaces mgmt\$db_datafiles mgmt\$db_controlfiles </pre> <p>Client Configuration Views</p> <pre> MGMT\$CSA_COLLECTIONS MGMT\$CSA_FAILED MGMT\$CSA_HOST_OS_COMPONENTS MGMT\$CSA_HOST_SW MGMT\$CSA_HOST_COOKIES MGMT\$CSA_HOST_CUSTOM MGMT\$CSA_HOST_RULES MGMT\$CSA_HOST_CPUS MGMT\$CSA_HOST_IOCARDS MGMT\$CSA_HOST_NICS MGMT\$CSA_HOST_OS_PROPERTIES MGMT\$CSA_HOST_OS_FILESYSTEMS MGMT\$ECM_CONFIG_HISTORY MGMT\$ECM_CONFIG_HISTORY_KEY1 MGMT\$ECM_CONFIG_HISTORY_KEY2 MGMT\$ECM_CONFIG_HISTORY_KEY3 MGMT\$ECM_CONFIG_HISTORY_KEY4 MGMT\$ECM_CONFIG_HISTORY_KEY5 MGMT\$ECM_CONFIG_HISTORY_KEY6 MGMT\$HW_NIC MGMT\$OS_COMPONENTS MGMT\$OS_FS_MOUNT MGMT\$OS_HW_SUMMARY MGMT\$OS_PATCHES MGMT\$OS_SUMMARY MGMT\$SOFTWARE_COMP_PATCHSET MGMT\$SOFTWARE_COMPONENT_ONEOFF MGMT\$SOFTWARE_COMPONENTS MGMT\$SOFTWARE_DEPENDENCIES MGMT\$SOFTWARE_HOMES MGMT\$SOFTWARE_ONEOFF_PATCHES MGMT\$SOFTWARE_OTHERS MGMT\$SOFTWARE_PATCHES_IN_HOMES MGMT\$SOFTWARE_PATCHSETS </pre>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Security Repository Views	<p>The following security repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:</p> <pre> MGMT\$ESA_ALL_PRIVS_REPORT MGMT\$ESA_ANY_DICT_REPORT MGMT\$ESA_ANY_PRIV_REPORT MGMT\$ESA_AUDIT_SYSTEM_REPORT MGMT\$ESA_BECOME_USER_REPORT MGMT\$ESA_CATALOG_REPORT MGMT\$ESA_CONN_PRIV_REPORT MGMT\$ESA_CREATE_PRIV_REPORT MGMT\$ESA_DBA_GROUP_REPORT MGMT\$ESA_DBA_ROLE_REPORT MGMT\$ESA_DIRECT_PRIV_REPORT MGMT\$ESA_EXMPT_ACCESS_REPORT MGMT\$ESA_KEY_OBJECTS_REPORT MGMT\$ESA_OH_OWNERSHIP_REPORT MGMT\$ESA_OH_PERMISSION_REPORT MGMT\$ESA_POWER_PRIV_REPORT MGMT\$ESA_PUB_PRIV_REPORT MGMT\$ESA_SYS_PUB_PKG_REPORT MGMT\$ESA_TABSP_OWNERS_REPORT MGMT\$ESA_TRC_AUD_PERM_REPORT MGMT\$ESA_WITH_ADMIN_REPORT MGMT\$ESA_WITH_GRANT_REPORT </pre>

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 13c).
- Real User Experience Insight (RUEI).

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Restricted-Use License	The management suite contains a restricted use license of RUEI for use against the core JD Edwards EnterpriseOne application.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Features	<p>The Application Management Suite for JD Edwards EnterpriseOne includes the following features:</p> <ul style="list-style-type: none"> • Automatic discovery of 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 to track configuration parameters, take configuration snapshots, and compare configurations • Management Connectors open helpdesk tickets for incidents raised in Enterprise Manager. Event connectors share event information with other management systems. • Metric and Alert/Event History • Metric Extensions to create new metrics to monitor conditions specific to customer environments. • Monitoring and diagnostics to receive real-time metrics, historical data, and alert notifications. Examine log files for information pertinent to identifying problem root causes. • 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 to 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 on how end-users use the application and the experience that is delivered. • Service level management to monitor JD Edwards EnterpriseOne applications using beacon transactions and service dashboards.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Support for Real User Experience Insight (REUI) Monitoring	<p>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.</p> <p>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.</p> <p>All of the capabilities for Oracle Real User Experience Insight as documented in 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.</p>
Application Management Suite for JD Edwards EnterpriseOne	REUI Features	<ul style="list-style-type: none"> • 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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	REUI Licensed Links	<p>The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for JD Edwards EnterpriseOne:</p> <p>All JD Edwards EnterpriseOne Systems page</p> <ul style="list-style-type: none"> From Targets menu, select JD Edwards EnterpriseOne. This page is licensed. <p>Add All JD Edwards EnterpriseOne Targets page</p> <ul style="list-style-type: none"> From the Targets menu, select JD Edwards EnterpriseOne. From the All JD Edwards EnterpriseOne page, click Add. This page and all subsequent pages within the process are licensed. <p>JD Edwards EnterpriseOne System Home, Performance, Administration, Maintenance, Diagnostic, User Monitoring, and Topology pages</p> <ul style="list-style-type: none"> From the Targets menu, select 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 Targets menu, select 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 <p>JD Edwards EnterpriseOne Nodes System Home, Charts, Administration, Components and Topology pages</p> <ul style="list-style-type: none"> From the Targets menu, select Systems. On the Systems page, click the Name column for a system with a JD Edwards EnterpriseOne Nodes System type. These pages are licensed. <p>JD Edwards EnterpriseOne System Home, Charts, Administration, Components, Topology and Report pages</p> <ul style="list-style-type: none"> From the Targets menu, select Systems. On the Systems page, click the Name column for a system with a JD Edwards EnterpriseOne System type. These pages are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Support for Service Level Management (SLM)	<p>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.</p> <p>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.</p> <p>See Enterprise Manager Cloud Control Service Level Management in End-User Monitoring for more information.</p>
Application Management Suite for JD Edwards EnterpriseOne	SLM Licensed CLI Verbs	<p>The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for JD Edwards EnterpriseOne:</p> <pre data-bbox="764 1182 1089 1262">emcli apply_template_tests emcli create_service emcli add_target</pre>
Application Management Suite for JD Edwards EnterpriseOne	Support for Configuration Management	<ul style="list-style-type: none"> • JD Edwards EnterpriseOne HTML Server • JD Edwards EnterpriseOne Enterprise Server • JD Edwards EnterpriseOne Business Services Server • JD Edwards EnterpriseOne Server Manager
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Features	<p>Configuration Management features of the Application Management Suite for JD Edwards EnterpriseOne enable users to:</p> <ul style="list-style-type: none"> • 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

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Links	<p>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.</p> <p>All Targets Policy Violations section</p> <ul style="list-style-type: none"> On the Enterprise Summary page, all links in this section are licensed. <p>Deployment Summary section</p> <ul style="list-style-type: none"> 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 Targets menu, select Groups. On the Groups home page, click the Administration tab. All Hardware and Operating System related information in this section are licensed. <p>Security Policy Violations section</p> <ul style="list-style-type: none"> On the Enterprise Summary page, all links in this section are licensed. <p>Configuration section</p> <ul style="list-style-type: none"> From the Enterprise Summary page, click the Deployments menu. On the Deployments page, all links in this section are licensed. <p>Client Configuration section</p> <ul style="list-style-type: none"> From the Enterprise Summary page, click the Deployments menu. On the Deployments page, all links in this section are licensed. <p>Violations sub-tab page</p> <ul style="list-style-type: none"> 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. <p>Security at a Glance page</p> <ul style="list-style-type: none"> From the Enterprise Summary page, click the Compliance menu, then Security at a Glance. All links related to information on the host are licensed. <p>Policy Violations link and Compliance Score (%)</p> <ul style="list-style-type: none"> From the Targets menu, select Hosts. On the Hosts page, these items are licensed. <p>Configuration, Policy Violations, Security sections</p> <ul style="list-style-type: none"> From the Targets menu, select Hosts. On the Hosts page, the links in these sections are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Links (continued)	<p>Deployments link, Metric and Policy Settings link</p> <ul style="list-style-type: none"> From the Targets menu, select Hosts. On the Hosts page under Related Links, these links are licensed. <p>Configuration page</p> <ul style="list-style-type: none"> From the Targets menu, select Hosts. On the Hosts page, click Configuration. All features, links, and information on this page are licensed. <p>Policy Violation link</p> <ul style="list-style-type: none"> From the Targets menu, select Systems. On the Systems page, this link is licensed. From the Targets menu, select Groups. On the Groups page, this link is licensed. <p>Configuration Changes, Policy Violations, Security Policy Violations sections</p> <ul style="list-style-type: none"> From the Targets menu, select Groups. On the Groups home page, all links in these sections are licensed. <p>Configuration Searches</p> <ul style="list-style-type: none"> From the Targets menu, select Groups. On the Groups home page, click the Administration tab. For host and operating systems, this feature is licensed. <p>Policy Violations column</p> <ul style="list-style-type: none"> From the Targets menu, select Groups. On the Groups home page, click the Members tab. All links and information in this column are licensed.
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Reports	<p>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.</p> <ul style="list-style-type: none"> All reports under Deployment and Configuration Monitoring reports: <ul style="list-style-type: none"> Alerts and Policy Violations Disabled Policies Security reports: <ul style="list-style-type: none"> Security Policy Overview

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Policy Repository Views	<p>The following policy repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne:</p> <p>Policy Definition Views</p> <pre>mgmt\$policies mgmt\$policy_parameters mgmt\$policy_violation_ctxt mgmt\$policy_viol_annotations mgmt\$policy_viol_notif_log</pre> <p>Policy Association Views</p> <pre>mgmt\$target_policies mgmt\$target_policy_settings mgmt\$target_policy_eval_sum mgmt\$target_compliance_score</pre> <p>Policy Violation Views</p> <pre>mgmt\$policy_violation_current mgmt\$policy_violation_history mgmt\$policy_violation_context</pre>
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Patching Repository Views	<p>The following patching repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne:</p> <p>Linux Patching</p> <pre>MGMT\$HOSTPATCH_HOSTS MGMT\$HOSTPATCH_GROUPS MGMT\$HOSTPATCH_GRP_COMPL_HIST MGMT\$HOSTPATCH_HOST_COMPL</pre> <p>Oracle Home Patching</p> <pre>MGMT\$CPF_ADVISORY_INFO MGMT\$CPF_HOMES_INFO MGMT\$CPF_PATCH_INFO MGMT\$EM_HOMES_PLATFORM MGMT\$HOMES_AFFECTED MGMT\$PATCH_ADVISORIES MGMT\$APPL_PATCH_AND_PATCHSET MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS</pre>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Configuration Repository Views	<p>The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne:</p> <p>Configuration Views</p> <pre> mgmt\$db_tablespaces mgmt\$db_datafiles mgmt\$db_controlfiles </pre> <p>Client Configuration Views</p> <pre> MGMT\$CSA_COLLECTIONS MGMT\$CSA_FAILED MGMT\$CSA_HOST_OS_COMPONENTS MGMT\$CSA_HOST_SW MGMT\$CSA_HOST_COOKIES MGMT\$CSA_HOST_CUSTOM MGMT\$CSA_HOST_RULES MGMT\$CSA_HOST_CPUS MGMT\$CSA_HOST_IOCARDS MGMT\$CSA_HOST_NICS MGMT\$CSA_HOST_OS_PROPERTIES MGMT\$CSA_HOST_OS_FILESYSTEMS MGMT\$ECM_CONFIG_HISTORY MGMT\$ECM_CONFIG_HISTORY_KEY1 MGMT\$ECM_CONFIG_HISTORY_KEY2 MGMT\$ECM_CONFIG_HISTORY_KEY3 MGMT\$ECM_CONFIG_HISTORY_KEY4 MGMT\$ECM_CONFIG_HISTORY_KEY5 MGMT\$ECM_CONFIG_HISTORY_KEY6 MGMT\$HW_NIC MGMT\$OS_COMPONENTS MGMT\$OS_FS_MOUNT MGMT\$OS_HW_SUMMARY MGMT\$OS_PATCHES MGMT\$OS_SUMMARY MGMT\$SOFTWARE_COMP_PATCHSET MGMT\$SOFTWARE_COMPONENT_ONEOFF MGMT\$SOFTWARE_COMPONENTS MGMT\$SOFTWARE_DEPENDENCIES MGMT\$SOFTWARE_HOMES MGMT\$SOFTWARE_ONEOFF_PATCHES MGMT\$SOFTWARE_OTHERS MGMT\$SOFTWARE_PATCHES_IN_HOMES MGMT\$SOFTWARE_PATCHSETS </pre>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Security Repository Views	<p>The following security repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne:</p> <pre> MGMT\$ESA_ALL_PRIVS_REPORT MGMT\$ESA_ANY_DICT_REPORT MGMT\$ESA_ANY_PRIV_REPORT MGMT\$ESA_AUDIT_SYSTEM_REPORT MGMT\$ESA_BECOME_USER_REPORT MGMT\$ESA_CATALOG_REPORT MGMT\$ESA_CONN_PRIV_REPORT MGMT\$ESA_CREATE_PRIV_REPORT MGMT\$ESA_DBA_GROUP_REPORT MGMT\$ESA_DBA_ROLE_REPORT MGMT\$ESA_DIRECT_PRIV_REPORT MGMT\$ESA_EXMPT_ACCESS_REPORT MGMT\$ESA_KEY_OBJECTS_REPORT MGMT\$ESA_OH_OWNERSHIP_REPORT MGMT\$ESA_OH_PERMISSION_REPORT MGMT\$ESA_POWER_PRIV_REPORT MGMT\$ESA_PUB_PRIV_REPORT MGMT\$ESA_SYS_PUB_PKG_REPORT MGMT\$ESA_TABSP_OWNERS_REPORT MGMT\$ESA_TRC_AUD_PERM_REPORT MGMT\$ESA_WITH_ADMIN_REPORT MGMT\$ESA_WITH_GRANT_REPORT </pre>

Application Management Suite for PeopleSoft Enterprise

This product offers comprehensive applications management capabilities that help IT organizations simplify the administration and monitoring of their PeopleSoft Enterprise environments. By building PeopleSoft management and monitoring on top of Oracle's rich and comprehensive management solution, the Application Management Suite for PeopleSoft Enterprise significantly reduces the cost and complexity of managing PeopleSoft Enterprise environments.

The Application Management Suite for PeopleSoft Enterprise consists of the following physical components:

- PeopleSoft plug-in (built into Enterprise Manager Cloud Control)
- Real User Experience Insight (RUEI)

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Restricted-Use License	The management suite contains a restricted use license of RUEI for use against the core PeopleSoft application.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Features	<p>The Application Management Suite for PeopleSoft Enterprise includes the following features:</p> <ul style="list-style-type: none"> • Automatic discovery of PeopleSoft Enterprise components. Create a system with all of the associated infrastructure components. • Monitoring and diagnostics to receive real-time metrics, Tuxedo queues, and historical data and alert notifications. Examine log files for information pertinent to identifying problem root causes. • Configuration management to track configuration parameters, take configuration snapshots, and compare configurations. • Service level management to monitor PeopleSoft Enterprise applications using beacon transactions and service dashboards. • Administration to start and stop PeopleSoft components, define PeopleSoft domains, and clear cache. • Real user monitoring on how end users use the application and the experience that is delivered.
Application Management Suite for PeopleSoft Enterprise	Support for Real User Experience Insight (REUI) Monitoring	<p>The Application Management Suite for PeopleSoft Enterprise's Real User Monitoring provides an out-of-the-box real-user monitoring solution for PeopleSoft. It automatically discovers PeopleSoft applications and translates network objects into manageable business services and functions. It provides a method for IT operators and managers at all business levels to easily measure and monitor real-user transactions — literally from clicks to views and business transactions.</p> <p>This accelerator supports real-user monitoring of PeopleSoft application components. Each individual user action is automatically matched to the correlating PeopleSoft node, site, or view to provide detailed and rich contextual analyses. This state-of-the-art monitoring solution captures and reports all functional errors, discovers end-user performance issues, and identifies application issues specific to PeopleSoft 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.</p> <p>All of the capabilities for Oracle Real User Experience Insight as documented in End-User Monitoring are available as part of the Application Management Suite for PeopleSoft license. However, the restricted license for Real User Experience Insight only allows RUEI to be used for monitoring PeopleSoft applications developed using PeopleSoft Internet Architecture. Customers who want to use Real User Experience Insight to monitor other applications need to obtain a full use license of the product.</p>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	REUI Features	<ul style="list-style-type: none">• Provides an out-of-the-box real-user monitoring solution for PeopleSoft 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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Licensed Links	<p>The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for PeopleSoft Enterprise:</p> <p>All PeopleSoft Targets page</p> <ul style="list-style-type: none"> From the Targets menu, select PeopleSoft. The All PeopleSoft Targets page is a licensed feature of the Application Management Suite for PeopleSoft. <p>PeopleSoft target home page</p> <ul style="list-style-type: none"> From the Targets menu, select PeopleSoft. On the All PeopleSoft Targets page, select a PeopleSoft target from the from the Name column. On the PeopleSoft target home page, all links, reports, and features available on or linked to from this page are licensed as part of the Application Management Suite for PeopleSoft <p>Monitoring</p> <ul style="list-style-type: none"> From the Targets menu, select PeopleSoft. From the PeopleSoft target menu, select Monitoring. All submenu items listed here are licensed as part of the Application Management Suite for PeopleSoft: <ul style="list-style-type: none"> Charts All Metrics Metric and Collection Settings Metric Collection Errors Status History Incident Manager Alert History Blackouts <p>Create/End Blackout</p> <ul style="list-style-type: none"> From the Targets menu, select PeopleSoft. From the PeopleSoft target menu, select Control, then select Create Blackout. The Create Blackout wizard is licensed as part of the Application Management Suite for PeopleSoft. From the Targets menu, select PeopleSoft. From the PeopleSoft target menu, select Control, then select End Blackout. The End Blackout functionality is licensed as part of the Application Management Suite for PeopleSoft <p>Job Activity</p> <ul style="list-style-type: none"> From the Targets menu, select PeopleSoft. From the PeopleSoft target menu, select Job Activity. All functionality, links, and reports included on the Job Activity page are licensed as part of the Application Management Suite for PeopleSoft.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Licensed Links (continued)	<p>Members</p> <ul style="list-style-type: none"> From the Targets menu, select PeopleSoft. From the PeopleSoft target menu, select Members. All submenu items listed here are licensed as part of the Application Management Suite for PeopleSoft: <ul style="list-style-type: none"> Show All Topology Dashboard Operations History <p>Target Information</p> <ul style="list-style-type: none"> From the Targets menu, select PeopleSoft. From the PeopleSoft target menu, select Target Information. The Target Information pop-up is licensed as part of the Application Management Suite for PeopleSoft. <p>Configuration</p> <ul style="list-style-type: none"> From the Targets menu, select PeopleSoft. From the PeopleSoft target menu, select Configuration. All submenu items listed here are licensed as part of the Application Management Suite for PeopleSoft: <ul style="list-style-type: none"> Last Collected Topology Search Compare Comparison Job Activity History Save Saved <p>Compliance</p> <ul style="list-style-type: none"> From the Targets menu, select PeopleSoft. From the PeopleSoft target menu, select Compliance. All submenu items listed here are licensed as part of the Application Management Suite for PeopleSoft. <ul style="list-style-type: none"> Results Standard Associations Real-time Observations <p>Target Setup</p> <ul style="list-style-type: none"> From the Targets menu, select PeopleSoft. From the PeopleSoft target menu, select Target Setup. All submenu items listed here are licensed as part of the Application Management Suite for PeopleSoft. <ul style="list-style-type: none"> Monitoring Configuration Administrator Access Remove Target Add to Group Properties

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Support for Service Level Management (SLM)	<p>Features associated with Service Level Management for PeopleSoft are also licensed as part of the Application Management Suite for PeopleSoft Enterprise. These SLM features are restricted for use with PeopleSoft Enterprise applications and only for the CPUs licensed. They cannot be used for extensions to the PeopleSoft Enterprise. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL.</p> <p>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.</p> <p>See Enterprise Manager Cloud Control Service Level Management in End-User Monitoring for more information.</p>
Application Management Suite for PeopleSoft Enterprise	SLM Licensed CLI Verbs	<p>The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for PeopleSoft:</p> <ul style="list-style-type: none"> • <code>emcli apply_template_tests</code> • <code>emcli create_service</code> • <code>emcli add_target</code>
Application Management Suite for PeopleSoft Enterprise	Support for Configuration Management	<p>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 PeopleSoft Enterprise 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 PeopleSoft-specific software components, which include:</p> <ul style="list-style-type: none"> • PeopleSoft System • PS Application Server Database • PS Application Server Domain • PS Process Monitor • PS Process Scheduler Domain • PS Search Server Domain • PS Web Site • PS PIA

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Configuration Management Features	<p>Configuration Management features of the Application Management Suite for PeopleSoft enable users to:</p> <ul style="list-style-type: none"> • 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
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Reports	<p>The following reports are part of the licensed features the Application Management Suite for PeopleSoft. To display the Report page, from the Enterprise Summary home page, click the Targets menu, then PeopleSoft. On the All PeopleSoft Targets page, select a PeopleSoft target from the from the Name column. From the PeopleSoft target menu, select Information Publisher Reports.</p> <ul style="list-style-type: none"> • License Pack Usage under Feature and License Pack Usage • Monitoring reports: <ul style="list-style-type: none"> Aggregate Targets Alerts Availability History Availability Metrics Report
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Policy Repository Views	<p>The following policy repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:</p> <p>Policy Definition Views</p> <pre> mgmt\$policies mgmt\$policy_parameters mgmt\$policy_violation_ctxt mgmt\$policy_viol_annotations mgmt\$policy_viol_notif_log </pre> <p>Policy Association Views</p> <pre> mgmt\$target_policies mgmt\$target_policy_settings mgmt\$target_policy_eval_sum mgmt\$target_compliance_score </pre> <p>Policy Violation Views</p> <pre> mgmt\$policy_violation_current mgmt\$policy_violation_history mgmt\$policy_violation_context </pre>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Patching Repository Views	<p>The following patching repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:</p> <p>Linux Patching</p> <p>MGMT\$HOSTPATCH_HOSTS MGMT\$HOSTPATCH_GROUPS MGMT\$HOSTPATCH_GRP_COMPL_HIST MGMT\$HOSTPATCH_HOST_COMPL</p> <p>Oracle Home Patching</p> <p>MGMT\$CPF_ADVISORY_INFO MGMT\$CPF_HOMES_INFO MGMT\$CPF_PATCH_INFO MGMT\$EM_HOMES_PLATFORM MGMT\$HOMES_AFFECTED MGMT\$PATCH_ADVISORIES MGMT\$APPL_PATCH_AND_PATCHSET MGMT\$APPLIED_PATCHES MGMT\$APPLIED_PATCHSETS</p>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Configuration Repository Views	<p>The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:</p> <p>Configuration Views</p> <pre>mgmt\$db_tablespaces mgmt\$db_datafiles mgmt\$db_controlfiles</pre> <p>Client Configuration Views</p> <pre>MGMT\$CSA_COLLECTIONS MGMT\$CSA_FAILED MGMT\$CSA_HOST_OS_COMPONENTS MGMT\$CSA_HOST_SW MGMT\$CSA_HOST_COOKIES MGMT\$CSA_HOST_CUSTOM MGMT\$CSA_HOST_RULES MGMT\$CSA_HOST_CPUS MGMT\$CSA_HOST_IOCARDS MGMT\$CSA_HOST_NICS MGMT\$CSA_HOST_OS_PROPERTIES MGMT\$CSA_HOST_OS_FILESYSTEMS MGMT\$ECM_CONFIG_HISTORY MGMT\$ECM_CONFIG_HISTORY_KEY1 MGMT\$ECM_CONFIG_HISTORY_KEY2 MGMT\$ECM_CONFIG_HISTORY_KEY3 MGMT\$ECM_CONFIG_HISTORY_KEY4 MGMT\$ECM_CONFIG_HISTORY_KEY5 MGMT\$ECM_CONFIG_HISTORY_KEY6 MGMT\$HW_NIC MGMT\$OS_COMPONENTS MGMT\$OS_FS_MOUNT MGMT\$OS_HW_SUMMARY MGMT\$OS_PATCHES MGMT\$OS_SUMMARY MGMT\$SOFTWARE_COMP_PATCHSET MGMT\$SOFTWARE_COMPONENT_ONEOFF MGMT\$SOFTWARE_COMPONENTS MGMT\$SOFTWARE_DEPENDENCIES MGMT\$SOFTWARE_HOMES MGMT\$SOFTWARE_ONEOFF_PATCHES MGMT\$SOFTWARE_OTHERS MGMT\$SOFTWARE_PATCHES_IN_HOMES MGMT\$SOFTWARE_PATCHSETS</pre>

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Security Repository Views	<p>The following security repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:</p> <pre> MGMT\$ESA_ALL_PRIVS_REPORT MGMT\$ESA_ANY_DICT_REPORT MGMT\$ESA_ANY_PRIV_REPORT MGMT\$ESA_AUDIT_SYSTEM_REPORT MGMT\$ESA_BECOME_USER_REPORT MGMT\$ESA_CATALOG_REPORT MGMT\$ESA_CONN_PRIV_REPORT MGMT\$ESA_CREATE_PRIV_REPORT MGMT\$ESA_DBA_GROUP_REPORT MGMT\$ESA_DBA_ROLE_REPORT MGMT\$ESA_DIRECT_PRIV_REPORT MGMT\$ESA_EXMPT_ACCESS_REPORT MGMT\$ESA_KEY_OBJECTS_REPORT MGMT\$ESA_OH_OWNERSHIP_REPORT MGMT\$ESA_OH_PERMISSION_REPORT MGMT\$ESA_POWER_PRIV_REPORT MGMT\$ESA_PUB_PRIV_REPORT MGMT\$ESA_SYS_PUB_PKG_REPORT MGMT\$ESA_TABSP_OWNERS_REPORT MGMT\$ESA_TRC_AUD_PERM_REPORT MGMT\$ESA_WITH_ADMIN_REPORT MGMT\$ESA_WITH_GRANT_REPORT </pre>
Application Management Suite for PeopleSoft Enterprise	Licensed Components	<p>You can only use the following pages against Java-based PeopleSoft Servers running PeopleSoft PIA-based applications. Customers must obtain a full-use license of the Oracle Middleware Management Pack to manage custom applications running on Java EE containers.</p> <ul style="list-style-type: none"> • All of the pages in Oracle JVM Diagnostics are licensed features of the Application Management Suite for PeopleSoft. • All of the pages in the WebLogic Server are licensed features of the Application Management Suite for PeopleSoft.

8

End-User Monitoring

This chapter describes the management packs offered by Enterprise Manager in support of end-user monitoring. The following management packs are included:

- [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.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real User Experience Insight	Capabilities	<p>Oracle Real User Experience Insight (RUEI) uniquely captures a complete picture of the end-user experience and behavior, including:</p> <ul style="list-style-type: none">• 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 <p>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. Additionally, RUEI includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.</p>

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real User Experience Insight	Features	<p>Oracle Real User Experience Insight includes the following features:</p> <ul style="list-style-type: none"> • Application/Suite/Service modeling to model critical application environment by domain, URL and argument filtering based on a wide range of supported protocols. • Complete user experience monitoring of all requests and responses between a defined application environment and an end-user, determine usage, performance, and service level compliance. • Customized Reports and Dashboard to 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 to 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 to set thresholds to metrics, add conditions and filters to identify anomalies and establish trendline data. • User flow modeling of critical business functions that end users have to go through as a predefined 'click-path'. • User Session Diagnostics and Session Replay to report, review and replay entire user sessions from a clickstream perspective, store and share related raw and structured data.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real User Experience Insight	Licensed Links	<p>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.</p> <p>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:</p> <ul style="list-style-type: none"> From main console of Real User Experience Insight, go to the 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. <p>The following Suite Types are part of the license of the mentioned Oracle Enterprise Management Application Management Suites:</p> <ul style="list-style-type: none"> Siebel: Application Management Suite for Siebel E-Business Suite: Application Management Suite for Oracle E-Business Suite JD Edwards: Application Management Suite for JD Edwards EnterpriseOne Fusion framework: Application Management Suite for Fusion Applications PeopleSoft: Application Management Suite for PeopleSoft Enterprise <p>The mentioned links can only be used when the mentioned Oracle Enterprise Management Application Management Suite pack has been licensed.</p> <ul style="list-style-type: none"> 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. All of the pages in Oracle Real User Experience Insight (RUEI) are licensed features of RUEI and require the pack license. Note: 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. <p>Any and all methods of accessing pack functionality — whether through Oracle Enterprise Manager Cloud Control 13c, Desktop Widgets, command-line APIs, or direct access to the underlying data — require the Pack license.</p>
Oracle Real User Experience Insight	Standalone Accelerator Licensing	<p>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.</p>

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real User Experience Insight	Business Application Licensed Links	<p>The following links are licensable for Business Application targets:</p> <p>Real User Experience (RUEI) Data</p> <ul style="list-style-type: none"> From the Targets menu, select Business Application. Select a Business Application target from the list. On the Business Application home page, select the Business Application target menu, then select Real User Experience (RUEI), and finally RUEI data. All links in the page are licensed by the Real User Experience Insight pack. <p>RUEI Session Diagnostics</p> <ul style="list-style-type: none"> From the Targets menu, select Business Application. Select a Business Application target from the list. On the Business Application home page, select the Business Application target menu, the select Real User Experience (RUEI), and finally RUEI Session Diagnostics. All links in the page are licensed by the Real User Experience Insight pack. <p>RUEI Metrics</p> <ul style="list-style-type: none"> From the Targets menu, select Business Application. Select a Business Application target from the list. On the Business Application home page, select the Business Application target menu, then select Real User Experience (RUEI), and finally RUEI Session Diagnostics. All links in the page are licensed by the Real User Experience Insight pack. <p>Business Transaction Drill-Down Page</p> <ul style="list-style-type: none"> From the Targets menu, select Business Application. Select a Business Application target from the list. On the Business Application home page, select any link within the Business Transaction Region. <p>Business Application home page</p> <ul style="list-style-type: none"> From the Business Application menu, access is available to the home page. There are licensable links on regions that could be part of the home page under Real User Experience Insight. These licensable links could include the following regions: RUEI - Key Performance Indicators (KPI) RUEI - Top Executed User Requests RUEI - Top user and application Violations RUEI - Top Users RUEI - User Flows Service Test Status SLA Dashboard SLA Summary Region All functions of the mentioned regions are licensed by the Real User Experience Insight Pack.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real User Experience Insight	Restricted-Use License	<ul style="list-style-type: none"> A restricted use license of Business Intelligence Publisher is included to enable you to run reports on the Oracle Real User Experience Insight (RUEI) repository and to modify provided layouts. Additional database options or additional servers for disaster recovery require separate licensing. You 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, you receive a single-instance database per engine. To protect the repository with Data Guard, you must purchase a license for the standby site. To protect the repository with Oracle Real Application Clusters, you 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.

The following table describes this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing information
Enterprise Manager Cloud Control Service Level Management (SLM)	Standalone Licensing	<p>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:</p> <ul style="list-style-type: none"> • Oracle Real User Experience Insight • WebLogic Server Management pack Enterprise Edition • SOA Management Pack Enterprise Edition • Management Pack for WebCenter • Management Pack for Non-Oracle Middleware • Business Intelligence Management Pack • Management Pack Plus for Identity Management <p>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:</p> <ul style="list-style-type: none"> • 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.
Enterprise Manager Cloud Control Service Level Management (SLM)	Features	<p>Enterprise Manager Cloud Control Service Level Management (SLM) includes the following features:</p> <ul style="list-style-type: none"> • Beacons measure availability and performance from representative key user locations. • Complete service monitoring of availability, performance, usage, and service level compliance. • Service Dashboards provide the ability to set up and store selections of Services and report them through the Service Dashboard page and detail page, allowing for direct review or mailing of the dashboard. • Service modeling of critical business functions based on a wide range of supported protocols.

Management Pack	Type of Licensing Information	Licensing information
Enterprise Manager Cloud Control Service Level Management (SLM)	Licensed Services Links	<p>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:</p> <p>For configuration pages, from the Targets menu, select Services:</p> <ul style="list-style-type: none"> • 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. <p>For monitoring pages, from the Enterprise Manager home page, select the Targets menu, then Services:</p> <ul style="list-style-type: none"> • 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. <p>The following Related Links are also part of RUEI:</p> <ul style="list-style-type: none"> • Alert History • Blackouts • Metric Baselines • Past Changes • Pending Changes (where applicable)

Management Pack	Type of Licensing Information	Licensing information
Enterprise Manager Cloud Control Service Level Management (SLM)	Licensed Forms Applications Links	<p>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:</p> <p>For configuration pages, from the Targets menu, select Services:</p> <ul style="list-style-type: none"> • 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. <p>For monitoring pages, from the Targets menu, select Services:</p> <ul style="list-style-type: none"> • 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. <p>The following Related Links are also part of RUEI:</p> <ul style="list-style-type: none"> • Alert History • Blackouts • Metric Baselines • Past Changes • Pending Changes (where applicable)

Management Pack	Type of Licensing Information	Licensing information
Enterprise Manager Cloud Control Service Level Management (SLM)	Licensed CLI Verbs	<p>The following Enterprise Manager command line interface (CLI) verbs are licensed as part of Enterprise Manager Cloud Control Service Level Management:</p> <pre>add_beacon apply_template_tests assign_test_to_target delete_test disable_test enable_test extract_template remove_beacon set_availability set_key_beacons_and_tests sync_beacon</pre>
Enterprise Manager Cloud Control Service Level Management (SLM)	Restricted-Use License	A restricted use license of Oracle Functional Testing is included for the purpose of recording test scripts only.

9

Enterprise Manager Base Functionality

This chapter outlines the list of features that are included with the base functionality of Oracle Enterprise Manager:

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

The base installation of Enterprise Manager Cloud Control 13c includes several features free of charge with the purchase of any Oracle software license or Support contract.

Base Framework Feature Summary

The following items are included as part of framework features of Oracle Enterprise Manager Cloud Control 13c:

Base Framework Feature	Description
Agent Management	Start, stop, restart, and modify agent configuration from Oracle Enterprise Manager Cloud Control 13c. 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 App for Grafana	Render Enterprise Manager's metric data onto Grafana for flexible dashboards and related analytics.
Enterprise Manager Federation	Define all your Enterprise Manager sites and access critical information from a single new interface.
Enterprise Manager Mobile	Monitor Enterprise Manager sites from a mobile application. The application can be downloaded from the App Store® for Apple mobile devices and from Google Play for Android mobile devices.
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.
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.

Base Framework Feature	Description
Job Diagnostics Dashboards	Diagnose problems and resolve job system performance issues using intuitive dashboards that provide an administrator view of the job system.
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.
Oracle Linux Virtualization (OLV)	Monitor Oracle Linux Virtualization Manager and its constituent parts. A comprehensive set of predefined performance and health metrics enables automated monitoring of the Oracle Linux Virtualization environment.
Parallel OMS Upgrades	Upgrade the primary OMS and then upgrade all additional OMS simultaneously.
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 Feature Summary

Users of Standard Edition and Enterprise 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 13c:

Base Database Management Feature	Description
Add Protected Database for ZDLRA	Perform Recovery Appliance administration using the Add Protected Database operation verb, <code>manage_ra</code> .
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.

Base Database Management Feature	Description
Database Migration Workbench	Migrate workloads from an on-premises database to an Autonomous Database using the Database Migration Workbench. Database Migration Workbench features include the actual migration, post-migration analysis, and post-migration performance comparison.
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.
Execute SQL REST API	Use HTTP-based REST endpoints to execute SQL commands and extract data from the Oracle Management Repository or a database target configured in Enterprise Manager.
Grid Infrastructure management	Manage all components of Oracle Grid Infrastructure including Automatic Storage Management (ASM) and Clusterware (including Cluster Ready Services (CRS)).
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.
Pluggable Database (PDB) Create/Plug/Unplug	Create PDB from seed, plug PDB from unplugged PDB and unplug PDB (single target operations only using non-customized deployment procedure).
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 Feature Summary

The following items are included as part of Enterprise Manager Cloud Control 13c 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.

Base Middleware Management 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).
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.
WLST Script job	Schedule and track the execution of WLST commands from the Cloud Control console.

Base Engineered Systems Management Feature Summary

Engineered Systems Management components include:

- [Exadata Management Features](#)
- [Exalogic Management Features](#)
- [Private Cloud Appliance Management Features](#)

Exadata Management Features

The following pages are included as part of Enterprise Manager Cloud Control 13c Exadata management:

Exadata Management Feature	Description
Schematic	<ul style="list-style-type: none"> • Database Machine Schematic • Physical components • Physical placement • Temperature of cells • Alter physical placement of each component through 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
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 Oracle Diagnostics Pack:</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 Oracle Diagnostics Pack:</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 13c Exalogic management:

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

Private Cloud Appliance Management Features

The following items are included as part of Enterprise manager cloud control Private Cloud Appliance management:

Private Cloud Appliance Feature	Description
IaaS Self Service Portal	Includes deployment of Operating System only templates or assemblies. Note: Provisioning templates or assemblies containing Oracle software such as Database or WebLogic Server requires the relevant Cloud and Lifecycle packs.
Chargeback	Chargeback for host only metrics (CPU, Memory and Storage etc).
Rack Monitoring	<ul style="list-style-type: none"> • Private cloud appliance schematic • Physical placement • Temperature and IP information • Status summary of each component • List of alerts and incidents
Topology Viewer	<ul style="list-style-type: none"> • Private cloud appliance topology • System members • Switch fabric

Server, Storage, and Virtualization Management Feature Summary

The following items are included as part of Enterprise Manager Cloud Control 13c server and virtualization management. This also includes Oracle VM Server, Oracle VM Server for X86 with the Private Cloud Appliance and Oracle Linux Virtualization Manager.

Server, Storage, and Virtualization Features	Description
Administration	Provide remote administration capabilities for hosts.
Chargeback	Chargeback and Metering for guest virtual machines (VMs) and hosts. Note: Chargeback for VMs and hosts is free and does not require a license.
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.
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.
Host monitoring and management	Monitor of Cloud Control component services, such as jobs and notifications.
Infrastructure Management	Provide ready access to Home, Self-Service, Request Dashboard pages through the Infrastructure Cloud menu.
Metric Extensions	Create new metrics to monitor conditions specific to customer environments. Note: Metric Extensions are available free of charge only for the host target and not for other targets.
Monitoring Profiles for V12N	Provide monitoring attributes for issues associated with Oracle VM Server for SPARC and Oracle Solaris Container environments.

Server, Storage, and Virtualization Features	Description
Notifications	Notification on events and incidents for infrastructure targets (hosts, storage, VMs).
Oracle VM and Guest VM provisioning	Deploy Oracle VM server software to bare-metal servers and create Guest VMs using operating system ISOs or using the PXE mode.
Oracle VM management including Oracle VM manager and self-service console (IaaS Self Service Portal)	Manage and monitor Virtual Machines, hypervisors, storage and network environment."
Disaster Recovery (Site Guard) for Oracle VM	Disaster Recovery via Site Guard to automate complete site failover of Oracle Virtual Machine.
Performance monitoring	Provide real-time and historical performance monitoring.
Storage Plug-in	Manage storage assets more effectively.

A

Third-Party Licenses for Enterprise Manager Cloud Control

This appendix contains licensing information about certain third-party products included with Enterprise Manager Cloud Control 13c.

The following sections are provided:

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Open Source or Other Separately Licensed Software Distributed in Enterprise Manager Cloud Control

Required notices for open source software products or components distributed in Enterprise Manager Cloud Control 13c are identified in the following table along with the applicable licensing information. Additional notices and/or licenses may be found in the included documentation or readme files of the individual third party open source software.

Provider	Components	Version	Licensing information
Apache	Xerces2 Java	2.12.0	For a copy of the license, see Apache Software Foundation Licenses, Version 2.0 .

Provider	Components	Version	Licensing information
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Provider	Components	Version	Licensing information
			jetty-jmh tests examples jetty-quickstart jetty-distribution jetty-runner jetty-http-spi jetty-osgi jetty-alpn jetty-home jetty-bom jetty-documentation ***** 4P Dependencies: ***** NOTICE FILE: ===== ===== Jetty Web Container Copyright 1995-2019 Mort Bay Consulting Pty Ltd. ===== ===== The Jetty Web Container is Copyright Mort Bay Consulting Pty Ltd unless otherwise noted. Jetty is dual licensed under both * The Apache 2.0 License http://www.apache.org/licenses/LICENSE-2.0.html and * The Eclipse Public 1.0 License http://www.eclipse.org/legal/epl-v10.html Jetty may be distributed under either license. ----- Eclipse The following artifacts are EPL. * org.eclipse.jetty.orbit:org.eclipse.jdt.core The following artifacts are EPL and ASL2. * org.eclipse.jetty.orbit:javax.security.auth.message ----- OW2 The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html org.ow2.asm:asm-commons org.ow2.asm:asm ASM is released under the following 3-Clause BSD License: ASM: a very small and fast Java bytecode manipulation framework Copyright (c) 2000-2011 INRIA, France Telecom

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