Oracle® Enterprise Manager

Licensing Information User Manual

Release 13c Release 1

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Oracle Enterprise Manager Licensing Information User Manual, Release 13c Release 1

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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 Documents for more information.

Oracle Enterprise Manager 13*c* 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 Documents

- Conventions

- What's Changed

Audience

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

Documentation Accessibility

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

Access to Oracle Support

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

Related Documents

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

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

You can access these documents from the Oracle 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.
italic	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.

What's Changed

This table provides a brief overview of the document changes for the latest publication of the *Oracle Enterprise Manager Cloud Control 13c Licensing Information Guide*:

Part Number	Change Summary
E63698-03	Minor update to Enterprise Database Management.
	Added the following legacy management pack information to Enterprise Database Management:
	- Legacy: Configuration Management Pack for Oracle Database
	- Legacy: Change Management Pack for Oracle Database
	- Legacy: Provisioning and Patch Automation Pack for Oracle Database
	Minor update to Enterprise Manager Base Functionality.
E63698-02	Minor update to the Enterprise Manager Restricted-use License section.
E63698-01	Baseline document for support of Enterprise Manager Cloud Control 13*c*.

1

Introduction to Oracle Enterprise Manager Licensing

Oracle Enterprise Manager Cloud Control 13*c* is Oracle's single, integrated solution for managing all aspects of the Oracle Cloud and the applications running on it. Cloud Control couples a potent, top-down monitoring approach to delivering the highest quality of service for applications with a cost-effective automated configuration management, provisioning, and administrative solution. This powerful combination provides 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:

- Chapter 2, "Enterprise Database Management"
- Chapter 3, "Oracle Middleware Enterprise Management"
- Chapter 4, "Cloud Management"
- Chapter 5, "Identity Management Enterprise Management"
- Chapter 6, "Other Infrastructure Management"
- Chapter 7, "Packaged Application Management"
- Chapter 8, "End-User Monitoring"
- Chapter 9, "Enterprise Manager Base Functionality"
- Appendix A, "Third-Party Licenses"
- Appendix B, "Third-Party Licenses for Enterprise Manager Ops Center"
- Appendix C, "Oracle Licenses for Oracle Enterprise Manager Ops Center"

1.1 License Authorization Requirement

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

1.2 Showing Management Pack Information in Enterprise Manager

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

1. Access any **Enterprise Manager Cloud Control** page.

   For example, click **Targets**, then select **Systems**. On the Systems page, select a system name to display that system's home page.

2. Click **Setup** (in the upper-right corner of the page), then **Management Packs**, and finally **Enable Annotations**. Once enabled, any page requiring a licensed pack will show the pack's abbreviation:

   - Target's home page menu - click the target's home page menu to see which pages require a licensed pack.

   - Licensed link - the abbreviation for the licensed pack will appear on the page. Clicking the link will display the Management Packs page showing information about all management packs (for example, abbreviation of the pack, pack name, and a brief description of the pack).

   You can view the list of management packs any time. Click **Setup**, then **Management Packs**, and finally **License Information**.

1.3 Enabling and Disabling Management Packs in Enterprise Manager

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

1. Log in to Enterprise Manager Cloud Control 13*c* as a super administrator.

   To check your Cloud Control version, click **Help** (in the upper right corner of the page), then **About Oracle Enterprise Manager**. A pop-up window will appear to display the version.

2. Click **Setup** (in the upper right corner of the page), **Management Packs**, then **Management Pack Access**.

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

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

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

     Click **Apply** to save your changes.

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

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

Click **Apply** to save your changes.

- **Auto Licensing** - Enterprise Management users do not need to manually enable or disable management packs every time a new target is discovered. By using the Auto Licensing feature, you can define for each target type what packs a new target will be entitled to upon discovery.

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

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

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

  Click **Apply** to save your changes.

When you disable a Management Pack, links that are part of that pack will either be disabled or, when a link is clicked, a message will indicate that the associated pack is not licensed for use. After performing the previous steps to disable a pack, any administrator who logs in to Oracle Enterprise Manager Cloud Control 13*c* cannot access any Management Pack functionality that you have disabled.

1.4 Additional Database and Fusion Middleware Information

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

http://www.oracle.com/technetwork

- Oracle Database Licensing Information
- Oracle Fusion Middleware Licensing Information

1.5 Enterprise Manager Restricted-use License

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

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.

- Use of Oracle Virtual Assembly Builder is licensed, as long as the assemblies are deployed through Enterprise Manager.

- Oracle Enterprise Manager includes restricted use of Oracle Business Intelligence Publisher and Business Intelligence Mobile for use with Enterprise Manager functions and interfaces only. This restricted BI Publisher license will allow reporting only against the 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 BI Publisher license.

- Restricted-use license of Oracle ZFS Storage Appliance Cloning (Part #7102338) is included with 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 for Oracle and non-Oracle Database
- Legacy: Configuration Management Pack for Oracle Database
- Legacy: Change Management Pack for Oracle Database
- Legacy: Provisioning and Patch Automation Pack for Oracle Database

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

> **Note:** Oracle Enterprise Manager Cloud Control 13*c* supports management of Oracle Database Standard Edition One, Oracle Database Standard Edition, and Oracle Database Enterprise Edition. Other editions of Oracle Database, such as Oracle Database Personal Edition, which provides single-user development and deployment environments, is not supported by Oracle Enterprise Manager. For more information about the Oracle Database product family, see:
>
> http://docs.oracle.com/cd/E16655_
> 01/license.121/e17614/editions.htm#DBLIC110

2.1 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	The Oracle Diagnostics Pack includes the following features:
		■ 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.
		■ 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
		■ Bottleneck detection and Component top wait event analysis
		■ Memory access mode to retrieve performance statistics directly from the Shared Global Area (SGA).

Management Pack	Type of Licensing Information	Licensing Information
Oracle Diagnostics Pack	Feature Requirements	In order to use the features listed above, you must purchase licenses for Oracle Diagnostics Pack. The CONTROL_MANAGEMENT_ PACK_ACCESS initialization parameter controls access to Oracle Diagnostics Pack and Oracle Tuning Pack. This parameter can be set to one of three values:
		■ DIAGNOSTIC+TUNING: Oracle Diagnostics Pack and Oracle Tuning Pack functionality is enabled in the database server.
		■ DIAGNOSTIC: Only Oracle Diagnostics Pack functionality is enabled in the database server.
		■ NONE: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server.
		Any and all methods of accessing Oracle Diagnostics Pack functionality, whether through Enterprise Manager Console, desktop widgets, command-line APIs, or direct access to the underlying data, require an Oracle Diagnostics Pack license.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Diagnostics Pack	Access Features via API	Oracle Diagnostics Pack features can also be accessed by way of the following database server APIs and command-line interfaces:
		■ `DBMS_WORKLOAD_REPOSITORY` This API is part of the Oracle Diagnostics Pack.
		■ `DBMS_ADDM` This API is part of the Oracle Diagnostics Pack.
		■ `DBMS_ADVISOR` This API package is part of the Oracle Diagnostics Pack if you specify `ADDM` as the value of the `advisor_name` parameter or if you specify for the value of the `task_name` parameter any value starting with the `ADDM` prefix.
		■ `DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT` This API function is part of the Oracle Diagnostics Pack.
		■ `V$ACTIVE_SESSION_HISTORY` This dynamic performance view and its underlying table, `X$ASH`, are part of the Oracle Diagnostics Pack.
		■ `DBA_STREAMS_TP_PATH_BOTTLENECK` This API is part of the Oracle Diagnostics Pack.
		■ `DBA_ADDM_` All views beginning with `DBA_ADDM_` are part of the Oracle Diagnostics Pack.

		■ `DBA_STREAMS_TP_COMPONENT_STAT`
		
		Some data in `DBA_STREAMS_TP_COMPONENT_STAT` requires Oracle Diagnostics Pack. The following filter clause to any query on `DBA_STREAMS_TP_COMPONENT_STAT` shows Diagnostics-Pack-dependent data:
		
		`where STATISTIC_UNIT  = 'PERCENT'`
		
		For example, the following query shows Diagnostics-Pack-dependent data only:
		
		`SELECT * FROM DBA_STREAMS_TP_COMPONENT_STAT`
		`   where STATISTIC_UNIT = 'PERCENT';`

		■ `DBA_HIST_` All data dictionary views beginning with the prefix `DBA_HIST_` are part of this pack, along with their underlying tables. The only exception are the views: `DBA_HIST_SNAPSHOT`, `DBA_HIST_DATABASE_INSTANCE`, `DBA_HIST_SNAP_ERROR`, `DBA_HIST_SEG_STAT`, `DBA_HIST_SEG_STAT_OBJ`, and `DBA_HIST_UNDOSTAT`. They can be used without the Oracle Diagnostics Pack license.
		■ `DBA_ADVISOR_` All data dictionary views with the prefix `DBA_ADVISOR_` are part of this pack if queries to these views return rows with the value `ADDM` in the `ADVISOR_NAME` column or a value of `ADDM*` in the `TASK_NAME` column or the corresponding `TASK_ID`.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Diagnostics Pack	Disabling Licensed Links	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. ■ From the **Setup** menu, select **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: For Enterprise Manager Database Control, click the **Remove Access** option for the Diagnostics Pack and click **Apply**. For Enterprise Manager Cloud Control, click the appropriate check box for the Diagnostics Pack and click **Apply**.

Oracle Diagnostics Pack	Licensed Reports	The following reports found in the `/rdbms/admin/` directory of the Oracle home directory are part of the Oracle Diagnostics Pack:
		
		`awrrpt.sql`
		`awrrpti.sql`
		`awrgrpt.sql`
		`awrgrpti.sql`
		`awrgdrpt.sql`
		`awrgdrpi.sql`
		`addmrpt.sql`
		`addmrpti.sql`
		`ashrpt.sql`
		`ashrpti.sql`
		`awrddrpt.sql`
		`awrddrpi.sql`
		`awrsqrpi.sql`
		`awrsqrpt.sql`
		`awrextr.sql`
		`awrload.sql`
		`awrinfo.sql`
		`spawrrac.sql`

Oracle Diagnostics Pack	Licensed Repository Views	The following repository views are part of the Diagnostics Pack for Oracle Database:
		
		Monitoring Views
		
		`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`
		
		Template Views
		
		`MGMT$TEMPLATES`
		`MGMT$TEMPLATE_METRIC_COLLECTION`
		`MGMT$TEMPLATE_METRIC_SETTINGS`
		`MGMT$TEMPLATE_POLICY_SETTINGS`

2.2 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.
Oracle Tuning Pack	Feature Summary	- 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. - SQL Tuning Sets - A database object that captures and manages SQL workloads. - 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. In order to use the features listed above, you must purchase licenses for Oracle Tuning Pack, with two exceptions: 1. SQL Tuning Sets can be used if you have licensed either Oracle Tuning Pack or Oracle Real Application Testing. 2. Use of In-Memory Advisor for databases where Database In-Memory option has not yet been deployed does NOT require Oracle Tuning Pack license. A new initialization parameter, `CONTROL_MANAGEMENT_PACK_ACCESS`, is introduced to control access to Oracle Diagnostics Pack and Oracle Tuning Pack in the database server. This parameter can be set to one of three values: `DIAGNOSTIC+TUNING`: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is enabled in the database server. `DIAGNOSTIC`: Only Oracle Diagnostics Pack functionality is enabled in the server. `NONE`: Oracle Diagnostics Pack and Oracle Tuning Pack functionally is disabled in the database server. Any and all methods of accessing Oracle Tuning Pack functionality, whether through Enterprise Manager Console, desktop widgets, command-line APIs, or direct access to the underlying data, require an Oracle Tuning Pack license.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Tuning Pack	Disabling Licensed Links	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.
		■ Click **Setup** (top right-hand corner), then **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:
		For Enterprise Manager Database Control, click the **Remove Access** option for the Tuning Pack and click **Apply**.
		For Enterprise Manager Cloud Control, click the appropriate check box for the Tuning Pack and click **Apply**.
Oracle Tuning Pack	Accessing Features through Command-Line APIs	Oracle Tuning Pack features can also be accessed by way of the following database server APIs and command-line interfaces:
		■ `DBMS_ADVISOR`
		When the value of the `advisor_name` parameter is either `SQL Tuning Advisor` or `SQL Access Advisor`, 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	The `sqltrpt.sql` report in the `/rdbms/admin/` directory of the Oracle home directory is part of this pack.

2.3 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	The Database Lifecycle Management covers the entire lifecycle of the databases, including:
		■ Discovery and inventory tracking: the ability to discover your assets and track them.
		■ Initial provisioning: the ability to rollout databases in minutes.
		■ Ongoing change management: end-to-end management of patches, upgrades, schema and data changes.
		■ Configuration management: track inventory, configuration drift, and detailed configuration search.
		■ Compliance management: reporting and management of industry and regulatory compliance standards.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Prerequisites	The Database Lifecycle Management Pack is a prerequisite for the Oracle Cloud Management Pack for Oracle Database.
Database Lifecycle Management Pack for Oracle Database	General Feature Summary	The Database Lifecycle Management Pack for Oracle Database includes the following features, which you can use after purchasing a license: ■ 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). ■ 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. ■ 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. ■ Disaster Recovery through Site Guard to automate complete site failover of Oracle Fusion Middleware and Oracle Database and extend to include other data center components. **Note:** Usage of Site Guard requires licenses for *either* WebLogic Server Management Pack Enterprise Edition *or* Database Lifecycle Management Pack. ■ 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. ■ Software Standardization Advisor recommends software configurations to become standardized. This feature helps to reduce the proliferation of the software variances based on patch levels across your existing Database fleet. ■ User Defined Deployment Procedures (UDDP) to automate custom processes by creating a procedure from scratch by inserting the required phases, steps, and variables. ■ Exadata patching offers complete stack patching of Exadata Database Machines including Storage Servers, InfiniBand Switches, and Database Servers. ■ Ongoing provisioning of Exadata VMs.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Compliance and Configuration Features	The Database Lifecycle Management Pack for Oracle Database includes the following compliance and configuration features: ■ 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. **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. ■ 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	Schema Features	The Database Lifecycle Management Pack for Oracle Database includes the following schema features: ■ 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	The Database Lifecycle Management Pack for Oracle Database includes the following PDB features: ■ 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.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Rapid Home Provisioning Features	The Database Lifecycle Management Pack for Oracle Database includes the following Rapid Home Provisioning features: ■ Rapid Home 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 *remote cluster* 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 Rapid Home Provisioning server to: ■ Provision ■ Patch clusters or Oracle homes
Database Lifecycle Management Pack for Oracle Database	Licensed Parameters	The `init.ora` parameter `ENABLE_DDL_LOGGING` is licensed as part of the Oracle Database Lifecycle Management Pack when set to `TRUE`. When set to `TRUE`, the database reports schema changes in real time into the database alert log under the message group `schema_ddl`. The default setting is `FALSE`.

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Provisioning and Patching Licensed Links	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database: **Database Provisioning Procedures** ■ 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. **Database Upgrade** ■ 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. **Database Patching** ■ 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. **Offline Patching** ■ 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. **User Defined Deployment Procedures (UDDP)** ■ 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. **RAC Scale Out and Scale Back** ■ 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	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non-Oracle Database targets, you must purchase the appropriate management pack.

The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database:

Configuration Instance Browser

- 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.

Configuration Search

- 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.

Configuration History

- 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.

Configuration Compare

- 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.

Configuration Save

- 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.

Configuration Collection Extensibility

- 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.

Configuration Topology

- 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.

Change Activity Plans

- 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	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database. Starting from the Database target home page: **Schema Comparison** ■ 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. **Schema and Data Synchronization** ■ 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. **Copy Objects** ■ 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.
Database Lifecycle Management Pack for Oracle Database	Other Licensed Links	The following licensed links, features and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non-Oracle Database targets, you must purchase the appropriate management pack. The following are the licensed pages and links for the Database Lifecycle Management Pack for Oracle Database. Starting from the Database target home page: **File Synchronization** ■ When viewing comparison results differences as described in the Configuration Compare feature, select the configuration specification in the tree on the left. Select **Enable File Synchronization**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Database Lifecycle Management Pack for Oracle Database. **Software Standardization Advisor** ■ From the **Maintenance** 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. **Real-Time Schema Change Detection** ■ From the **Administration** menu, select **Initialization Parameters**. On the Initialization Parameters page, change the `enable_ddl_logging` option to **TRUE** to enable this feature, which is licensed as part of the Database Lifecycle Management Pack. **Real-time Configuration Change Detection and Compliance** ■ 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	The following reports are part of the Database Lifecycle Management Pack for Oracle Database. All reports in each of these sections are licensed as part of this pack. To access the reports go to the **Enterprise Manager** home page, click the **Reports, Information Publisher Reports** or **BI Publisher Enterprise Reports**. The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of the Database Lifecycle Management Pack: ■ Compliance ■ Deployment and Configuration ■ Sample Host reports, Configuration Reports ■ Security The following reporting areas, reports and sub-reports under BI Publisher Enterprise Reports are licensed as part of the Database Lifecycle Management Pack: ■ Compliance ■ Deployment and Configuration ■ Sample Host reports, Configuration Reports ■ Security

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed CLI Verbs	The following Enterprise Manager command line interface (CLI) verbs are licensed as part of the Database Lifecycle Management Pack:

```
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
update_and_retry_step
update_procedure_input
upgrade_database
```

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Compliance Repository Views	The following compliance repository views are part of the Database Lifecycle Management Pack for Oracle Database:

```
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
```

Management Pack	Type of Licensing Information	Licensing Information
Database Lifecycle Management Pack for Oracle Database	Licensed Provisioning and Patching Repository Views	The following provisioning and patching repository views are part of the Database Lifecycle Management Pack for Oracle Database:

Provisioning and Patching Views

```
EM$PROV_APPTYPES
EM$PROVAPP_METADATA
EM$PROVAPP_METADATA_VERSION
EM$PROVAPP_TAGS
EM$PROVAPP_TAG_PROPERTIES
MGMT$PA_RECOM_METRIC_SOURCE
```

Patching Views

```
GC$EM_PC_PLAN_PATCHES
GC$EM_PC_PLANS
GC$EM_PC_PLAN_TARGETS
GC_PC_EXECUTION_INSTANCES
GC_PC_PLAN_ANALYSIS_RS
GC_PC_PLAN_REMEDY
GC_PC_PLAN_REMEDY_DETAILS
GC_PC_PLAN_USERS
GC_PC_TARGETS
MGMT$APPLIED_PATCHES
MGMT$APPLIED_PATCHSETS
MGMT$ARU_FAMILY_PRODUCT_MAP
MGMT$ARU_LANGUAGES
MGMT$ARU_PATCH_RECOMMENDATIONS
MGMT$ARU_PLATFORMS
MGMT$ARU_PRODUCT_RELEASE_MAP
MGMT$ARU_PRODUCTS
MGMT$ARU_RELEASES
MGMT$ARU_TARGETS
MGMT$PA_AFFTED_HOST_GUID_OH
MGMT$PA_AFFTED_HOST_OH
MGMT$PA_AFFTED_TARGETS
MGMT$PA_FINAL_PATCH_LIST
MGMT$PA_TARGET_MAPPING
MGMT$PR_APPL_PATCHES_TO_OH
MGMT$PR_APPL_PATCHES_TO_OH_TGT
MGMT$PR_HOME_INFO
MGMT$PR_HOMES_AFFECTED_COUNT
MGMT$RECOM_METRIC_SOURCE
```

Management Pack	Type of Licensing Information	Licensing Information

Database Lifecycle Management Pack for Oracle Database	Licensed Oracle Home Patching Repository Views	The following Oracle home patching repository views are part of the Database Lifecycle Management Pack for Oracle Database:
		
		`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`

Management Pack	Type of Licensing Information	Licensing Information

Database Lifecycle Management Pack for Oracle Database	Licensed Configuration Repository Views	The following configuration repository views are part of the Database Lifecycle Management Pack for Oracle Database:
		
		Configuration Views
		
		`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`
		
		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`

Management Pack	Type of Licensing Information	Licensing Information
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
```

2.4 Oracle Data Masking and Subsetting Pack for Oracle and non-Oracle Database

The 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 mask a portion of the original data. Subsetting can also be used without masking to extract a portion of the original data.

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

Management Pack	Type of Licensing Information	Licensing Information
Oracle Data Masking and Subsetting Pack for Oracle and non-Oracle Database	Feature Summary	Oracle Data Masking and Subsetting Pack includes the following components and features:
		■ Application Data Modeling to automate the discovery of database table columns holding sensitive data and the corresponding parent-child relationships defined in the database.
		■ Data Masking Formats
		■ Data Masking Definitions to reduce the exposure of sensitive data to test and development organizations with its powerful, flexible, and repeatable masking transformations.
		■ Data Subsetting Definitions automates the creation of subsets of application data for sharing with internal and external partners.
		■ Application Data Modeling accelerator to support select versions of Oracle E-Business Suite and Oracle Fusion Applications.
		■ Data Masking templates to support select versions of Oracle Fusion Applications and Oracle E-Business Suite.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Data Masking and Subsetting Pack for Oracle and non-Oracle Database	Restricted Use License	The Oracle Data Masking and Subsetting Pack for non-Oracle Databases includes the following restricted use licenses: ■ Database Gateway for APPC ■ Database Gateway for DRDA ■ Database Gateway for Informix ■ Database Gateway for SQL Server ■ 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 the Oracle Data Masking and Subsetting Pack for non-Oracle databases, the Oracle Database Gateways stage the data in a separately licensed Oracle database. Oracle Data Masking and Subsetting functionality cannot be executed directly against the non-Oracle database. Oracle Data Masking and Subsetting Pack must be licensed for: 1. The source database server, that is, the databases from which the data originates. 2. The staging database server on which masking and subsetting operations are executed.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Data Masking and Subsetting Pack for Oracle and non-Oracle Database	Licensed Links	The following are the licensed pages and links for the Oracle Data Masking and Subsetting Pack within Oracle Enterprise Manager:

Application Data Modeling

- From the **Enterprise** menu, select **Quality Management**, then **Application Data Modeling**.
- On the Oracle database or cluster database target home page, select the **Security** menu, then select **Application Data Modeling**.
- All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.

Data Masking Definitions

- From the **Enterprise** menu, select **Quality Management**, then **Data Masking Definitions**.
- On the Oracle database or cluster database target home page, select the **Security** menu, then select **Data Masking Definitions**.
- All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.

Data Masking Formats

- From the **Enterprise** menu, select **Quality Management**, then **Data Masking Formats**.
- On the Oracle database or cluster database target home page, select the **Security** menu, then select **Data Masking Formats**.
- All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack. However, the Clone and Mask option requires a Database Lifecycle Management Pack for Oracle Database license.

Data Subsetting Definitions

- From the **Enterprise** menu, select **Quality Management**, then **Data Subsetting Definitions**.
- On the Oracle database or cluster database target home page, select the **Security** menu, then select **Data Masking and Subsetting**, then **Data Subsetting Definitions**.
- All features, functions, links, buttons, and drill-downs on these menus are licensed as part of the Oracle Data Masking and Subsetting Pack.

2.5 Legacy: Configuration Management Pack for Oracle Database

Enterprise Manager Cloud Control no longer offers the Configuration Management Pack for Oracle Database. Enterprise Manager 10*g* and 11*g* 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	You are entitled to use the following features with a previously purchased Configuration Management Pack for Oracle Database License:

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.

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.

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	The following licensed links, features, and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non-Oracle Database targets, you must purchase the appropriate management pack.

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

Configuration Instance Browser

- 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.

Configuration Search

- 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.

Configuration History

- 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.

Configuration Compare

- 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.

File Synchronization

- When viewing comparison results differences as described in the Configuration Compare feature, select the configuration specification in the tree on the left. Select **Enable File Synchronization**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Configuration Management Pack for Oracle Database.

Configuration Save

- 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.

Configuration Collection Extensibility

- 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.

Real-time Configuration Change Detection and Compliance

- 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.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Links (continued)	**Configuration Topology** ■ From the Target Home Page, click **Oracle Database**, **Configuration**, **Topology**. In the View Dropdown, **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.
Configuration Management Pack for Oracle Database	Licensed Reports	The following reports can be used with an existing license for the Configuration Management Pack for Oracle Database. The following reports and associated features apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non Oracle Database targets, you must purchase the appropriate management pack. All database reports in each of these sections are licensed for this pack. To access the reports go to the Enterprise Manager home page, click the **Reports**, **Information Publisher Reports** or **BI Publisher Enterprise Reports**. The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of the Configuration Management Pack for Oracle Database: ■ Compliance ■ Configuration The following reporting areas, reports and sub-reports under BI Publisher Enterprise Reports are licensed as part of the Configuration Management Pack for Oracle Database: ■ Compliance ■ Configuration

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Configuration Views	The following Configuration repository views are part of the Configuration Management Pack for Oracle Database:

```
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
```

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Compliance Views	The following Configuration repository views are part of the Configuration Management Pack for Oracle Database:

```
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$WEBLOGIC_RACONFIG
MGMT$WEBLOGIC_RAOUTBOUNDCONFIG
MGMT$WEBLOGIC_RESOURCECONFIG
MGMT$WEBLOGIC_SERVER
MGMT$WEBLOGIC_STARTSHUTCLASSES
MGMT$WEBLOGIC_VIRTUALHOST
MGMT$WEBLOGIC_WEBAPPCOMPONENT
MGMT$WEBLOGIC_WORKMANAGER
MGMT$WEBLOGIC_WSCONFIG
```

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Oracle Home Patching Views	The following Oracle Home Patching repository views are part of the Configuration Management Pack for Oracle Database: 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$PATCH_ADVISORIES
Configuration Management Pack for Oracle Database	Licensed Security Views	The following Security repository views are part of the Configuration Management Pack for Oracle Database: MGMT$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

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Oracle Database	Licensed Client Configuration Views	The following Client Configuration repository views are part of the Configuration Management Pack for Oracle Database:

```
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_FILESYSEMS
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
```

2.6 Legacy: Change Management Pack for Oracle Database

Enterprise Manager Cloud Control no longer offers the Change Management Pack for Oracle Database. Enterprise Manager 10*g* and 11*g* 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	You are entitled to use the following features with a Change Management Pack for Oracle Database License: ■ 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. 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. ■ 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	The following Licensed Links, features, and functions apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management on non-Oracle Database targets, you must purchase the appropriate management pack.
		The following are the licensed pages, links, features, and functions that can be use with an existing Change Management Pack for Oracle Database License:
		Schema Comparison
		■ 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.
		Schema and Data Comparisons
		■ 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.
		Schema and Data Synchronization
		■ 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.
		Copy Objects
		■ 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.
		Real-Time Schema Change Detection
		■ 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.
Change Management Pack for Oracle Database	Licensed Reports	The following reports are part of the Change Management Pack for Oracle Database. All Oracle Database reports in each of these sections are licensed for this pack. To access the reports go to the Enterprise Manager home page, click the **Reports**, **Information Publisher Reports** or **BI Publisher Enterprise Reports**.
		The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of the Change Management Pack for Oracle Database:
		■ Database Change Management
		The following reporting areas, reports, and sub-reports under BI Publisher Enterprise Reports are licensed as part of the Change Management Pack for Oracle Database:
		■ Database Change Management
Change Management Pack for Oracle Database	Licensed Parameters	The init.ora parameter ENABLE_DDL_LOGGING is licensed as part of the Change Management Pack for Oracle Database when set to TRUE. The default is FALSE.

2.7 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 10*g* and 11*g* customers who purchased the Provisioning and Patch Automation Pack for Oracle Database can use

the Provisioning and Patch Automations 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	You are entitled to use the following features with a previously purchased Provisioning and Patch Automation Pack for Oracle Database license: ■ 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. 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. ■ The `oplan` Utility (The basic OPlan feature is free for everyone that has an Oracle Support contract. Use of OPlan metadata to drive orchestration logic from either Enterprise Manager or custom/third-party scripts is part of the 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	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:

Provisioning Procedures

- 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.

Database Upgrade

- 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.

Database Provisioning and Cloning

- 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.

- 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)	**RAC Scale Out and Scale Back** ■ 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. ■ 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 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. **Database Patching** ■ 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. **Offline Patching** ■ From the Enterprise Manager home page, click the **Setup** menu, **Provisioning and Patching**, then **Offline Patching**. From the **Online and Offline Setting** tab, the **Connection, Offline** setting is licensed with the Provisioning and Patch Automation Pack for Oracle Database.
Provisioning and Patch Automation Pack for Oracle Database	Licensed Reports	The following reports are part of the Provisioning and Patch Automation Pack for Oracle Database. The following reports and associated features apply only to the Oracle Database target and the associated host an Oracle Database is deployed on. For management of non-Oracle Database targets, you must purchase the appropriate management pack. All reports in each of these sections are licensed for this pack. To access the reports go to the Enterprise Manager home page, click the **Reports**, **Information Publisher Reports** or **BI Publisher Enterprise Reports**. The following reporting areas, reports, and sub-reports under Information Publisher Reports are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database: ■ Deployment and Configuration The following reporting areas, reports and sub-reports under BI Publisher Enterprise Reports are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database: ■ Deployment and Configuration

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed CLI Verbs	The following Enterprise Manager command line interface (CLI) verbs are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database:

```
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_inpu
upgrade_database
```

Management Pack	Type of Licensing Information	Licensing Information
Provisioning and Patch Automation Pack for Oracle Database	Licensed Provisioning and Patching Views	The following Provisioning and Patching repository views are part of the Provisioning and Patch Automation Pack for Oracle Database:

Provisioning and Patching Views

```
EM$PROV_APPTYPES
EM$PROVAPP_METADATA
EM$PROVAPP_METADATA_VERSION
EM$PROVAPP_TAG_PROPERTIES
EM$PROVAPP_TAGS
MGMT$PA_RECOM_METRIC_SOURCE
```

Patching Views

```
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
```

Management Pack	Type of Licensing Information	Licensing Information

Provisioning and Patch Automation Pack for Oracle Database	Licensed Oracle Home Patching Views	The following Oracle Home Patching repository views are part of the Provisioning and Patch Automation Pack for Oracle Database:
		
		`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`

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
- Oracle Application Replay Pack
- Business Intelligence Management Pack

3.1 WebLogic Server Management Pack Enterprise Edition

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

> **Note:** All Oracle Enterprise Manager Fusion Middleware Control 13*c*, Oracle Enterprise Manager Fusion Middleware Control 11*g* and Oracle Enterprise Manager 10*g* Application Server Control functionality is included with each edition of Oracle Fusion Middleware. The links and areas that require the WebLogic Server Management Pack Enterprise Edition are outside of Fusion Middleware Control and Application Server Control.

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	The following general features are available with this pack and, unless otherwise stated, are available from Oracle Enterprise Manager Cloud Control 13*c*:
		■ Enterprise Scalability and Clustering provides dynamic configuration changes, production redeployment, and rolling upgrades to help maintain system availability.
		■ 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.
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, and business transaction monitoring for applications running in Oracle WebLogic Server. By combining contextual drill-down modeling capabilities with extensive metrics that can span containers horizontally 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.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Application Performance Management Features	Unless otherwise stated, the following features apply to Oracle WebLogic Server, Oracle Application Server, and Oracle GlassFish Server environments, as appropriate: ■ "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 to suspend monitoring 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. ■ Business transaction monitoring *(applies only to Oracle WebLogic Server)* provides transaction request visibility across multitier architecture for WebLogic applications, including individual transaction tracing and aggregated metrics. ■ 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. ■ 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. Response time breakdowns are available in each layer (servlet, JSP, EJB, JDBC, and SQL) of an OC4J container. ■ 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.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Application Performance Management Features That *Do Not Apply* for GlassFish)	The following Application Performance Management features apply to Oracle WebLogic Server and Oracle Application Server but do not apply for Oracle GlassFish Server environments: ■ Application Dependency and Performance - an automatic modeling of application infrastructure with dynamic and static dependency analysis to identify the root cause of problems in a multitier Java EE application or web services. ■ 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	Within the WebLogic Server Management Pack Enterprise Edition and the Business Transaction Management (BTM) product which is installed separately from Enterprise Manager Cloud Control, licensing is restricted to Java EE and web service components with respect to the BTM pages in Enterprise Manager Cloud Control and does not include SOA, BPEL, WebCenter, Portal, OSB, ESB, AIA, or Pageflow components.
WLS Management Pack EE	Coherence Management Overview	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. **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.
WLS Management Pack EE	Coherence Management Features	Coherence Management within the WebLogic Server Management Pack Enterprise Edition includes the following features: ■ 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. ■ Stop existing nodes and start new ones in a Coherence cluster. ■ Start and stop the entire Coherence cluster.
WLS Management Pack EE	Business Transaction Management Overview	The WebLogic Server Management Pack Enterprise Edition includes Business Transaction Management (BTM) features only for Java EE and web service components running on WebLogic Server, as shown below. **Note:** BTM is separately installed from Enterprise Manager Cloud Control 13*c*. **IMPORTANT NOTE:** The Business Transaction Management (BTM) component will not be shipped with the Oracle Enterprise Manager Cloud Control 13.1 release. However, backwards support to register BTM 12.1.0.7.x or 12.1.0.6.x Servers is supported within the 13.1 release.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Business Transaction Management Features	BTM within the WebLogic Server Management Pack Enterprise Edition includes the following features: ■ Contextual visibility into Java EE. ■ Exception management provides transaction alerts and searches to locate exceptions and errors in transactions that span multiple application components. ■ Transaction discovery to discover, record, and correlate transactions as they flow across components that may span multiple WebLogic and/or Oracle Application Server instances. ■ Transaction-level agreements provides transaction-level objectives (TLOs) that span multiple interacting components.
WLS Management Pack EE	Business Transaction Management Licensed Technology	The following BTM technologies are licensed as part of the WebLogic Server category: ■ JAX-WS ■ JAX-RPC ■ JDBC ■ EJB ■ JMS ■ Java ■ JSP/Servlet ■ Web Application
WLS Management Pack EE	Business Transaction Management Restricted-Use License	Oracle includes a restricted-use license of Oracle Service Bus (and its subcomponents) for the express purpose of monitoring endpoints for Enterprise Manager Business Transaction Management, covering creation of proxy and business service in pass-through mode only. Oracle Service Bus may be configured with the Business Transaction Management observer agent in single instance and an additional instance of Oracle Service Bus may be configured for proxy failover purposes.
WLS Management Pack EE	Lifecycle Management Overview	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, Oracle GlassFish Server, and Oracle Application Server. It eliminates manual and time-consuming tasks related to provisioning, patching, configuration management, and compliance management.
WLS Management Pack EE	Lifecycle Management License to Provision	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): ■ WebLogic Server ■ Forms, Reports ■ Oracle HTTP Server ■ Oracle Traffic Director ■ Oracle Coherence ■ Oracle GlassFish ■ Oracle Application Server 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	Unless otherwise stated, the following lifecycle management features apply to Oracle WebLogic Server, Oracle Application Server, and Oracle GlassFish Server environments, as appropriate: ■ Change Activity Plans *(Does not apply for GlassFish)* 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. This feature includes integration of former BEA Guardian Signatures into the Enterprise Manager Cloud Control console as WebLogic Signature Rules. ■ 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 *(Does not apply for GlassFish)* to automate complete site failover of Oracle Fusion Middleware and Oracle Database and extend to include other data center components. **Note:** Usage of Site Guard requires licenses for *either* WebLogic Server Management Pack Enterprise Edition *or* Database Lifecycle Management Pack for Oracle Database. ■ Notifications of configuration changes or differences. ■ Patching to provide end-to-end patch automation for Oracle WebLogic Server and Oracle Application Server. ■ Provisioning Deployment Procedures to: *Clone* WebLogic Domain and/or Middleware Home from reference installation or from software library. *Clone* Oracle Application Server. *Scale up or out* WebLogic Domain. *Deploy/redeploy/undeploy* Java EE applications to Oracle WebLogic Domain(s). *Perform first-time provisioning* 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. ■ Patch Recommendations *(Only applicable to Oracle Application Server and WebLogic Server)* 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 and Oracle Application Server targets. ■ Synchronization of WebLogic Server Configuration Files (for example, `config.xml`) from Cloud Control if differences are detected between WebLogic Domains or WebLogic Servers during a configuration comparison operation

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Administration Overview	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.
WLS Management Pack EE	Administration Features	The following features apply *only* to Oracle WebLogic Server environments (not Oracle Application Server nor Oracle GlassFish Server environments): ■ 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 12*c* and not applicable to earlier versions).
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.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle Traffic Director Features	Oracle Traffic Director within the WebLogic Server Management Pack Enterprise Edition includes the following features: ■ 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. ■ Start and stop OTD instances. ■ Refresh Oracle Traffic Director targets. ■ Oracle Traffic Director (OTD) monitoring to provide trusted partition/vCPU licensing report.
WLS Management Pack EE	Licensed Links Overview	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. The WebLogic Server Management Pack Enterprise Edition does not include features for Business Process Execution Language (BPEL), Oracle Service Bus (OSB), Oracle SOA Infra, and Oracle SOA Composite. For these Oracle Fusion Middleware components, the SOA Management Pack Enterprise Edition must be licensed. **Note:** While Enterprise Manager functionality to manage Oracle WebLogic Server is rather consistent across versions of Oracle WebLogic Server, the specific licensable links under the WebLogic Server Management Pack Enterprise Edition and the navigation to those links may be different across different versions of Oracle WebLogic Server. Consequently, some of the following sections distinguish between licensed links for different WebLogic Server versions.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle Fusion Middleware Target Types	In general, the Licensed Links content below apply to the following Oracle Fusion Middleware target types: ■ Oracle Fusion Middleware Farm ■ Oracle GlassFish Domain ■ Oracle GlassFish Cluster ■ Oracle GlassFish Server ■ 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 Web Cache ■ Oracle Coherence ■ VoiceXML Driver ■ Oracle Forms Services ■ Oracle Portal ■ Oracle Reports Application ■ XMPP Driver ■ Oracle Reports Bridge ■ Oracle Reports Server ■ Oracle Reports Tools ■ Oracle Traffic Director ■ Oracle User Messaging Service ■ User Messaging Email Driver ■ Java Virtual Machine ■ Java Virtual Machine Pool ■ Exalogic Elastic Cloud
WLS Management Pack EE	Oracle Application Server Target Types	In general, the Licensed Links content below apply to the following Oracle Application Server target types: ■ Oracle Application Server Farm ■ Oracle Application Server Cluster ■ DCM-Managed Oracle Application Server Cluster ■ OC4J ■ Oracle HTTP Server ■ Oracle Web Cache ■ Oracle Forms Services ■ Oracle Reports ■ Oracle Portal ■ BC4J ■ Oracle Workflow ■ Oracle Application Server Wireless

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed Links Outside of Target-Specific Pages	The following are the licensed pages and links for the WebLogic Server Management Pack Enterprise Edition outside of target-specific pages:

Application Performance Management

- From the **Setup** menu, select **Middleware Management**, and then select **Setup**. 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.

Compliance

- 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.

Configuration Instance Browser

- From the **Targets** menu, select **Middleware**. Select a Fusion Middleware-related target identified in the list of Oracle Fusion Middleware Target Types listed above. From the target's menu, click the **Configuration** submenu. All features, functions, links, buttons, and drill-downs from this submenu, excluding Topology, are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

Real-time Configuration Change Detection

- 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 WebLogic Server Management Pack Enterprise Edition.

Self Update

- 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	The following are the Configuration licensed pages and links for the WebLogic Server Management Pack Enterprise Edition outside of target-specific pages:

Configuration Collection Extensibility

- 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 WebLogic Server Management Pack Enterprise Edition.

Configuration Compare

- 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 WebLogic Server Management Pack Enterprise Edition.

Configuration History

- 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.

Configuration Save

- 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 WebLogic Server Management Pack Enterprise Edition.

Configuration Search

- 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.

Configuration Topology

- From the **Enterprise** menu, select **Configuration and Topology**. In the View drop-down menu, Used By is licensed as part of the WebLogic Server Management Pack Enterprise Edition.

- From the **Enterprise** menu, select **Configuration and Topology, Customization**. All features, functions, links, buttons, and drill-downs on this menu are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

Change Activity Plans

- 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	The following are the Provisioning and Patching licensed pages and links for the WebLogic Server Management Pack Enterprise Edition outside of target-specific pages:

Offline Patching

- 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.

User Defined Deployment Procedures (UDDP)

- 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.

WebLogic Server Patching

- 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.

Middleware Provisioning

- 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:

  Provision Middleware

  Scale up/Scale Out Middleware

  Application Server Deployment 10.1.3

  Application Server Deployment 10.1.3.x SOA

  Deploy/Undeploy Java EE Applications

  Coherence Node Provisioning

- From the Enterprise Manager home page, click the **Enterprise** menu, then **Provisioning and Patching**, and finally **Middleware Provisioning**. All features, functions, links, buttons, and drill-downs on the Middleware Provisioning page are licensed as part of the WebLogic Server Management Pack Enterprise Edition - with the exception of SOA Artifacts Provisioning, Deploy SOA Composite, BPEL Process Provisioning, and Oracle Service Bus Resource Provisioning deployment procedures (these are licensable through the SOA Management Pack Enterprise Edition).

- 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 through the SOA Management Pack Enterprise Edition and Management Pack for WebCenter).

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	General Monitoring Features Licensed Links for GlassFish	To access the GlassFish Domain, GlassFish Cluster, and GlassFish Server targets, select **Middleware** from the Targets menu. The following links are licensable for GlassFish Domain, GlassFish Cluster, and GlassFish Server targets: **General monitoring links** ■ On the GlassFish Cluster home page, the links in the sections listed are licensed. Monitoring and Diagnostics Servers Resource Usage **GlassFish Server page** ■ On the GlassFish Server home page, all links on the page are licensed except the link to the GlassFish Server Administration Console. This drill-down link to the console is not licensed. **Diagnostics** ■ On the GlassFish Domain home page, click **Diagnostics**. All links are licensable under this menu. ■ On the GlassFish Server home page, click **Diagnostics**. All links are licensable under this menu. **Performance Summary** ■ On the GlassFish Server home page, select **Monitoring**, and finally **Performance Summary**. **JVM Performance** ■ On the GlassFish Server home page, select **Monitoring**, and finally **JVM Performance**. **All Metrics** ■ On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Monitoring**, and finally **All Metrics**. ■ On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Monitoring**, and finally **All Metrics**. ■ On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Monitoring**, and finally **All Metrics**. **Alert History** ■ On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Monitoring**, and finally **Alert History**. ■ On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Monitoring**, and finally **Alert History**. ■ On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Monitoring**, and finally **Alert History**.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	General Blackout Monitoring Features Licensed Links for GlassFish	To access the GlassFish Domain, GlassFish Cluster, and GlassFish Server targets, select **Middleware** from the Targets menu. The following Blackouts links are licensable for GlassFish Domain, GlassFish Cluster, and GlassFish Server targets: **Blackouts** ■ On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Monitoring**, and finally **Blackouts**. ■ On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Monitoring**, and finally **Blackouts**. ■ On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Monitoring**, and finally **Blackouts**. **Create Blackout** ■ On the GlassFish Domain home page, click **Create Blackout**. The Create Blackout wizard is licensed. ■ On the GlassFish Domain home page, click the **GlassFish Domain** menu, then **Monitoring**, and finally **Blackouts**. Click **Create**. The Create Blackout wizard is licensed. ■ On the GlassFish Cluster home page, click **Create Blackout**. The Create Blackout wizard is licensed. ■ On the GlassFish Cluster home page, click the **GlassFish Cluster** menu, then **Monitoring**, and finally **Blackouts**. Click **Create**. The Create Blackout wizard is licensed. ■ On the GlassFish Server home page, click **Create Blackout**. The Create Blackout wizard is licensed. ■ On the GlassFish Server home page, click the **GlassFish Cluster** menu, then **Monitoring**, and finally **Blackouts**. Click **Create**. The Create Blackout wizard is licensed. **End Blackout** ■ On the GlassFish Domain home page, click **End Blackout**. ■ On the GlassFish Cluster home page, click **End Blackout**. ■ On the GlassFish Server home page, click **End Blackout**.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Configuration Management Features Licensed Links for GlassFish	To access the GlassFish Domain, GlassFish Cluster, and GlassFish Server targets, select **Middleware** from the Targets menu. The following configuration management links are licensable for GlassFish Domain, GlassFish Cluster, and GlassFish Server targets:

Last Collected

- On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Configuration**, and finally **Last Collected**.
- On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Configuration**, and finally **Last Collected**.
- On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Configuration**, and finally **Last Collected**.

Compare

- On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Configuration**, and finally **Compare**.
- On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Configuration**, and finally **Compare**.
- On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Configuration**, and finally **Compare**.

Search

- On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Configuration**, and finally **Search**.
- On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Configuration**, and finally **Search**.
- On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Configuration**, and finally **Search**.

History

- On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Configuration**, and finally **History**.
- On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Configuration**, and finally **History**.
- On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Configuration**, and finally **History**.

Saved

- On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Configuration**, and finally **Saved**.
- On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Configuration**, and finally **Saved**.
- On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Configuration**, and finally **Saved**.

Topology

- On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Configuration**, and finally **Topology**.
- On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Configuration**, and finally **Topology**.
- On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Configuration**, and finally **Topology**.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Compliance Management Features Licensed Links for GlassFish	To access the GlassFish Domain, GlassFish Cluster, and GlassFish Server targets, select **Middleware** from the Targets menu. The following compliance management links are licensable for GlassFish Domain, GlassFish Cluster, and GlassFish Server targets: **Results** ■ On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Compliance**, and finally **Results**. ■ On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Compliance**, and finally **Results**. ■ On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Compliance**, and finally **Results**. **Standard Associations** ■ On the GlassFish Domain home page, select the **GlassFish Domain** target menu, select **Compliance**, and finally **Standard Associations**. ■ On the GlassFish Cluster home page, select the **GlassFish Cluster** target menu, select **Compliance**, and finally **Standard Associations**. ■ On the GlassFish Server home page, select the **GlassFish Server** target menu, select **Compliance**, and finally **Standard Associations**.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Administration Licensed Links	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.
		■ **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 *preferred credentials*, if they are not already saved. With preferred credentials, you are automatically taken to the page with no log in required.
		Selective Tracing feature
		■ 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**.
		Configuration of Log File Settings feature
		■ 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**.
		Change Center
		■ 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 **Changes**. All links in the Changes drop-down menu are licensed with WebLogic Server Management Pack Enterprise Edition.
		System MBean Browser
		■ 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**.
		Manage JDBC Data Sources
		■ 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**.
		Record configuration actions
		■ 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 the **Recording** drop-down menu. All links in the Recording drop-down menu are licensed with WebLogic Server Management Pack Enterprise Edition.
		Server Templates Administration
		■ From the **Targets** menu, select **Middleware**, then select a domain target link to go to the Domain Home page.
		■ From the Domain Home page from the **Domain** menu, select **Environment**, then select **Server Templates**.
		Machines Administration
		■ From the **Targets** menu, select **Middleware**, then select a domain target link to go to the Domain Home page.
		■ From the Domain Home page from the **Domain** menu, select **Environment**, then select **Machines**.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	WebLogic Cluster and Server Administration Licensed Links	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:

WebLogic Domain Administration

- 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 **Administration**.

WebLogic Cluster Administration

- 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, select **Administration**.

WebLogic Server Administration

- 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**.
- *Note: Under the Administration submenu, the* **Start/Stop** *menu item is not licensed under WebLogic Server Management Pack Enterprise Edition.*

WLS Management Pack EE	WebLogic Server Versions 9, 10, and 12 Licensed Links	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 13*c*, and are licensed as part of the WebLogic Server Management Pack Enterprise Edition:

Application Deployment page

- 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.

Clustered Application Deployment page

- 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.

Middleware-related target pages

- 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	The following list of links and navigation to them correspond with managing Oracle HTTP Server in Oracle Enterprise Manager Cloud Control 13*c* and are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

Oracle HTTP Server Home page

- From the **Targets** menu, select **Middleware**, and then select standalone **Oracle HTTP Server** home page. On this page, all links are licensed.

The following licensed links are accessed from the Oracle HTTP Server home page:

Create Blackout

- 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

End Blackout

- 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

Performance Summary

- Select the **Target** menu, then **Monitoring**, and finally **Performance Summary**. All links, menu items, tabs, and sections on this page are licensed

All Metrics

- Select the **Target** menu, then **Monitoring**, and finally **All Metrics**. All links, menu items, tabs, and sections on this page are licensed

Status History

- Select the **Target** menu, then **Monitoring**, and finally **Status History**. All links, menu items, tabs, and sections on this page are licensed

Alert History

- Select the **Target** menu, then **Monitoring**, and finally **Alert History**. All links, menu items, tabs, and sections on this page are licensed

Blackouts

- Select the **Target** menu, then **Monitoring**, and finally **Blackouts**. All links, menu items, tabs, and sections on this page are licensed

Log Viewer

- 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	The following list of links and navigation to them correspond with managing Oracle HTTP Server in Oracle Enterprise Manager Cloud Control 13*c* and are licensed as part of the WebLogic Server Management Pack Enterprise Edition and are accessed from the Oracle HTTP Server home page: **Last Collected** ■ Select the **Target** menu, then **Configuration**, and finally **Last Collected**. All links, menu items, tabs, and sections on this page are licensed **Compare** ■ Select the **Target** menu, then **Configuration**, and finally **Compare**. All links, menu items, tabs, and sections on this page are licensed **Search** ■ Select the **Target** menu, then **Configuration**, and finally **Search**. All links, menu items, tabs, and sections on this page are licensed **History** ■ Select the **Target** menu, then **Configuration**, and finally **History**. All links, menu items, tabs, and sections on this page are licensed **Saved** ■ Select the **Target** menu, then **Configuration**, and finally **Saved**. All links, menu items, tabs, and sections on this page are licensed **Topology** ■ 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	The following list of links and navigation to them correspond with managing Oracle HTTP Server in Oracle Enterprise Manager Cloud Control 13*c* and are licensed as part of the WebLogic Server Management Pack Enterprise Edition and are accessed from the Oracle HTTP Server home page: **Results** ■ Select the **Target** menu, then **Compliance**, and finally **Results**. All links, menu items, tabs, and sections on this page are licensed **Standard Associations** ■ 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 Chapter 8, "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 Transaction Management Licensed Links	All pages, links, menus, and so on, begin from the Oracle Business Transaction Management Administrative console. All navigation tree nodes and all tabbed pane links and data available on these pages are licensed: **Administration page** ■ Select the **Administration** menu. **Alerts page** ■ Select the **Alerts** menu. **Dashboards page** ■ Select the **Dashboards** menu. **Maps page** ■ Select the **Maps** menu. **MyView page** ■ Select the **MyView** menu. **Policies page** ■ Select the **Policies** menu. **Usage page** ■ Select the **Usage** menu.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Business Application Licensed Links	The following links are licensable for Business Application targets:

Real User Experience (RUEI) Data

- 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.

RUEI Session Diagnostics

- 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.

RUEI Metrics

- 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.

Business Transaction Drill-Down Page

- 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.

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:

All functions of the following regions are licensed by Real User Experience Insight.

- 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	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 **WebLogic Domains Summary page** ■ 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. **WebLogic Domains Members page** ■ 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. **Coherence Clusters page** ■ 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	Oracle Application Server 10g General Licensed Links	The following links are licensable for Oracle Application Server 10g: **Patch link** ■ From the Oracle Application Server home page, this link in the Related Links section is licensed. **Deployments section links** ■ From the Oracle Application Server Administration page, all links in the Deployment section are licensed.
WLS Management Pack EE	Oracle Application Server 10g Target Types Licensed Links	The following links are licensable for Oracle Application Server 10g: **Metrics link** ■ From the Middleware sub-tab, click an **Oracle Application Server Cluster** link. On the Oracle Application Server Cluster page, this link is licensed. **Performance Links section links** ■ From the Oracle Application Server page, click the **Performance** tab. On the Application Server Performance page, all links in the Performance Links section are licensed. ■ From the OC4J page, click the **Performance** tab. On the OC4J Performance page, all links in the Performance Links section are licensed. ■ From the Oracle HTTP Server page, click the **Server Performance** tab. On the HTTP Server Performance page, all links in the Performance Links section are licensed. ■ From the Web Cache page, click the **Performance** tab. On the Web Cache Performance page, all links in the Performance Links section are licensed. **Virtual Host Performance tab** ■ From the HTTP Server Home page, click the **Virtual Host Performance** tab. This tab is a licensed. **Other Sections**, including: ■ Availability in the General section ■ Alert History and notifications functionality in the Related Links section ■ All Metrics and Blackouts in the Related Links section ■ From the Middleware sub-tab, click an **Oracle Middleware** link. On the Oracle Application Server page, these links are licensed: **OC4J** links. **Oracle HTTP Server** link. **Web Cache** links.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle Application Server 10g Oracle Home Licensed Links	The following Oracle home links are licensable for Oracle Application Server 10g and are accessed from the Middleware page: ■ Click a link for an **Oracle Application Server**. On the Oracle Application Server Instance page, this link in the General section is licensed. ■ Click a link for an **Oracle HTTP Server**. On the Oracle HTTP Server page, this link in the General section is licensed. ■ Click a link for an **Oracle Web Cache**. On the Oracle Web Cache page, this link in the General section is licensed. ■ Click a link for an **OC4J**. On the OC4J page, this link in the General section is licensed.
WLS Management Pack EE	Oracle Application Server 10g Policies Licensed Links	The following Policies links are licensable for Oracle Application Server 10g and are accessed from the Middleware page: ■ Click a link for an **Oracle Application Server**. On the Oracle Application Server Instance page, click the **Metric and Policy Settings** link in the Related Links section. On the Metric and Policy Settings page, this link is licensed. ■ Click a link for an **Oracle HTTP Server**. On the Oracle HTTP Server Instance page, click the **Metric and Policy Settings** link in the Related Links section. On the Metric and Policy Settings page, this link is licensed. ■ Click a link for an **Oracle Web Cache**. On the Oracle Web Cache page, click the **Metric and Policy Settings** link in the Related Links section. On the Metric and Policy Settings page, this link is licensed. ■ Click a link for an **OC4J**. On the OC4J page, click the **Metric and Policy Settings** link in the Related Links section. On the Metric and Policy Settings page, this link is licensed.
WLS Management Pack EE	Oracle Application Server 10g Alerts/Policy Violations and Disabled Policies Licensed Links	The following Alerts/Policy Violations and Disabled Policies links are licensable for Oracle Application Server 10g and are accessed from the Middleware page: ■ Click a link for an **Oracle Application Server**. On the Oracle Application Server Instance page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed. ■ Click a link for an **Oracle HTTP Server**. On the Oracle HTTP Server Instance page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed. ■ Click a link for an **Oracle Web Cache**. On the Oracle Web Cache page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed. ■ Click a link for an **OC4J**. On the OC4J page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed. ■ Select a **farm**. On the Oracle Application Server Farm page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed. ■ Select a **Cluster**. On the Oracle Application Server Cluster page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.
WLS Management Pack EE	Oracle Application Server 10g Deployments and Configuration Searches Sections Licensed Links	The following Deployments and Configuration Searches sections links are licensable for Oracle Application Server 10g and are accessed from the Middleware page: ■ Select a **farm**. On the Oracle Application Server Farm page, click the **Administration** sub-tab. All links in these sections are licensed. ■ Select a **Cluster**. On the Oracle Application Server Cluster page, click the **Administration** sub-tab. All links in these sections are licensed.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle Application Server 10g Configuration and Configuration Searches Sections Licensed Links	The following Configuration and Configuration Searches section links are licensable for Oracle Application Server 10g and are accessed from the Middleware page: ▪ Click a link for an **Oracle Application Server**. On the Oracle Application Server Instance page, click the **Administration** sub-tab. All links in these sections are licensed. ▪ Click a link for an **Oracle HTTP Server**. On the Oracle HTTP Server Instance page, click the **Administration** sub-tab. All links in these sections are licensed. ▪ Click a link for an **Oracle Web Cache**. On the Oracle Web Cache page, click the **Administration** sub-tab. All links in these sections are licensed. ▪ Click a link for an **OC4J**. On the OC4J page, click the **Administration** sub-tab. All links in these sections are licensed.
WLS Management Pack EE	Oracle Application Server 10g Policy Violations Licensed Links	The following Policy Violations links are licensable for Oracle Application Server 10g and are accessed from the Middleware page: ▪ Click a link for an **Oracle Application Server**. On the Oracle Application Server Instance page, click the **Topology** sub-tab. On the Topology page, select a target on the page. This link in the Selection Details section is licensed. ▪ Click a link for an **Oracle HTTP Server**. On the Oracle HTTP Server Instance page, these links in the Policy Violations section are licensed. ▪ Click a link for an **Oracle Web Cache**. On the Oracle Web Cache page, these links in the Policy Violations section are licensed. ▪ Click a link for an **OC4J**. On the OC4J page, these links in the Policy Violations section are licensed. ▪ Select a **farm**. On the Oracle Application Server Farm page, these links in the Policy Violation section are licensed. ▪ Select a **farm**. On the Oracle Application Server Farm page, click the **Topology** sub-tab. The Policy Violations link in the Selection Details section is licensed. ▪ Select a **farm**. On the Oracle Application Server Farm page, click the **Members** sub-tab. All links in this section are licensed. ▪ Select a **farm**. On the Oracle Application Server Farm page, Metrics page, Administration page, and Members page, click the **Launch Dashboard** button. All links in this column are licensed. ▪ Select a **cluster**. On the Oracle Application Server Cluster page, these links in the Policy Violation section are licensed. ▪ Select a **Cluster**. On the Oracle Application Server Cluster page, click the **Topology** sub-tab, then select a **target** on the page. This link in the Selection Details section is licensed. ▪ Select a **Cluster**. On the Oracle Application Server Cluster page, click the **Members** sub-tab. All links in this section are licensed. ▪ Select a **Cluster**. On the Oracle Application Server Cluster page, J2EE Applications page, Metrics page, Administration page, and Members page, click the **Launch Dashboard** button. All links in this column are licensed.
WLS Management Pack EE	Oracle Application Server 10g Security Licensed Links	The following Security links are licensable for Oracle Application Server 10g and are accessed from the Middleware page: ▪ Click a link for an **Oracle HTTP Server**. On the Oracle HTTP Server Instance page, all links in the Security section are licensed. ▪ Click a link for an **Oracle Web Cache**. On the Oracle Web Cache page, all links in the Security section are licensed. ▪ Click a link for an **OC4J**. On the OC4J page, all links in the Security section are licensed.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle Application Server 10g Changes Licensed Links	The following Changes links are licensable for Oracle Application Server 10g and are accessed from the Middleware page: ■ Select a **farm**. On the Oracle Application Server Farm page, these links in the Configuration Changes section are licensed. ■ Select a **Cluster**. On the Oracle Application Server Cluster page, these links in the Configuration Changes section are licensed.
WLS Management Pack EE	Oracle Application Server 10g Security Policy Violations Licensed Links	The following Security Policy Violation links are licensable for Oracle Application Server 10g and are accessed from the Middleware page: ■ Select a **farm**. On the Oracle Application Server Farm page, these links in the Security Policy Violations section are licensed. ■ Select a **Cluster**. On the Oracle Application Server Cluster page, these links in the Security Policy Violations section are licensed.
WLS Management Pack EE	Oracle Application Server 10g Components Licensed Links	From the Middleware sub-tab, access is available to other Oracle Application Server 10g components (such as Oracle Forms Services). There are licensable links on these additional component home pages under the WebLogic Server Management Pack Enterprise Edition. These licensable links could include the following: **Oracle home link** ■ In the General section, if a link to Oracle home exists, the link is licensed. **Policies link** ■ In the Related Links section, click the **Metric and Policy Settings** link. On the Metric and Policy Settings page, this link is licensed ■ On the Oracle Application Server Integration B2B page, click the **Metric and Policy Settings** link in the Related Links section. On the Metric and Policy Settings page, this link is licensed. ■ On the Oracle Workflow page, click the **Metric and Policy Settings** link in the Related Links section. On the Metric and Policy Settings page, this link is licensed. ■ On the Oracle CMSDK page, click the **Metric and Policy Settings** link in the Related Links section. On the Metric and Policy Settings page, this link is licensed. **Alerts and Policy Violations and Disabled Policies links** ■ In the Related Links section, click the **Reports** link. On the Report Definitions page, these links in the Monitoring section are licensed. ■ On the Oracle Application Server Integration B2B page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed. ■ On the Oracle Workflow page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed. ■ On the Oracle CMSDK page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle Application Server 10g HTTP Server HA Group Licensed Links	You can access HTTP Server HA Group pages from the **All Targets** page. To display the available HTTP Server HA Group, select **HTTP Server HA Group** from the Search list, then click **Go**. Select a HTPP Server HA Group from the search results to display its home page. The following HTTP Server HA Group links are licensable for Oracle Application Server 10g:

Configuration Changes links

- On the HTTP Server HA Group Home page, the links in the Configuration Changes section are licensed.

Policy Violation links

- On the HTTP Server HA Group Home page, the links in the Policy Violation section are licensed.

Security Policy Violation links

- On the HTTP Server HA Group Home page, the links in the Security Policy Violation section are licensed.

Critical Patch Advisories for Oracle homes links

- On the HTTP Server HA Group Home page, the links in the Critical Patch Advisories section are licensed.

Alerts/Policy Violations and Disabled Policies links

- On the HTTP Server HA Group Home page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed.

Deployments and Configuration sections

- On the HTTP Server HA Group Home page, click the **Administration** sub-tab. All links in these sections are licensed.

Policy Violation section

- On the HTTP Server HA Group Home page, click the **Members** sub-tab. This section is licensed.

Policy Violations column

- On the HTTP Server HA Group Home page, Charts page, Administration page, and Members page, click the **Launch Dashboard** button. All links in this column are licensed.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Oracle Application Server 10g OC4J HA Group Licensed Links	You can access OC4J HA Group pages from the **All Targets** page. To display the available OC4J HA Group, select **OC4J HA Group** from the Search list, then click **Go**. Select an OC4J HA Group from the search results to display its home page. The following OC4J HA Group links are licensable for Oracle Application Server 10g: **Configuration Changes links** ■ On the OC4J HA Group page, the links in the Configuration Changes section are licensed. **Policy Violation links** ■ On the OC4J HA Group page, the links in the Policy Violation section are licensed. **Security Policy Violation links** ■ On the OC4J HA Group page, the links in the Security Policy Violation section are licensed. **Critical Patch Advisories for Oracle homes links** ■ On the OC4J HA Group page, the links in the Critical Patch Advisories section are licensed. **Alerts/Policy Violations and Disabled Policies links** ■ On the OC4J HA Group page, click the **Reports** link in the Related Links section. On the Report Definitions page, these links in the Monitoring section are licensed. **Deployments and Configuration sections** ■ On the OC4J HA Group page, click the **Administration** sub-tab. All links in these sections are licensed. **Policy Violation section** ■ On the OC4J HA Group page, click the **Members** sub-tab. This section is licensed. **Policy Violations column** ■ On the OC4J HA Group page, Administration page, Charts page, and Members page, click the **Launch Dashboard** button. All links in this column are licensed.

WLS Management Pack EE	Licensed Blackout Repository Views	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:
		
		`MGMT$BLACKOUT_HISTORY`
		`MGMT$BLACKOUTS`

WLS Management Pack EE	Licensed Inventory Repository Reviews	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:
		
		`MGMT$METRIC_CATEGORIES`
		`MGMT$GROUP_FLAT_MEMBERSHIPS`

WLS Management Pack EE	Licensed Monitoring Repository Reviews	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:
		
		`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`

Management Pack	Type of Licensing Information	Licensing Information

WLS Management Pack EE	Licensed Compliance Repository Reviews	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:
		
		`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`

WLS Management Pack EE	Licensed Configuration Repository Reviews	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:
		
		`MGMT$EMAS_GLASSFISH_DOMAIN`
		`MGMT$EMAS_GLASSFISH_NODES`
		`MGMT$EMAS_GLASSFISH_DATASOURCE`
		`MGMT$EMAS_GLASSFISH_SVR_PROP`
		`MGMT$EMAS_GLASSFISH_DS_PROP`
		`MGMT$EMAS_GLASSFISH_SERVER`
		`MGMT$EMAS_GLASSFISH_NW_LSTNR`
		`MGMT$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_OPSSSYSPROP`
		`MGMT$WEBLOGIC_RACONFIG`
		`MGMT$WEBLOGIC_RAOUTBOUNDCONFIG`
		`MGMT$WEBLOGIC_RESOURCECONFIG`
		`MGMT$WEBLOGIC_SERVER`
		`MGMT$WEBLOGIC_STARTSHUTCLASSES`
		`MGMT$WEBLOGIC_VIRTUALHOST`
		`MGMT$WEBLOGIC_WEBAPPCOMPONENT`
		`MGMT$WEBLOGIC_WORKMANAGER`
		`MGMT$WEBLOGIC_WSCONFIG`

Management Pack	Type of Licensing Information	Licensing Information

WLS Management Pack EE	Licensed Oracle HTTP Server (OHS) Configuration Repository Reviews	The following repository views are part of the WebLogic Server Management Pack Enterprise Edition:
		
		`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`

WLS Management Pack EE	Licensed Reports	The following reports are part of the WebLogic Server Management Pack Enterprise Edition: ■ All reports in the category of **Oracle Home Patch Advisories** that pertain to Oracle Application Server targets are licensable. ■ WebLogic Server Health Check Report.

Management Pack	Type of Licensing Information	Licensing Information
WLS Management Pack EE	Licensed CLI Verbs	The following Enterprise Manager command-line interface (CLI) verbs are licensed as part of the WebLogic Server Management Pack Enterprise Edition:

```
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
```

Management Pack	Type of Licensing Information	Licensing Information

WLS Management Pack EE	Licensed CLI Verbs (continued)	`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`

WLS Management Pack EE	Restricted-Use License	WebLogic Server Management Pack Enterprise Edition includes the full capabilities of Enterprise Manager Cloud Control Service Level Management. See Enterprise Manager Cloud Control Service Level Management in Chapter 8 for more information.

3.2 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	This pack supports the following Cloud Control SOA targets: ■ 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	The SOA Management Pack Enterprise Edition Cloud Control targets include the following features:

- Adapter metrics provide throughput and error metrics for different adapters in graphical format.
- Application dependency and performance provide a model-driven, top-down approach within development, quality assurance (QA), staging, and production environments.
- Blackouts suspend monitoring on targets to support scheduled maintenance periods.
- Business-IT alignment 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.
- 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.
- 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	The following links are licensable for Cloud Control SOA targets:

BPEL Process Manager target pages

- 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.

Process List page

- 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.

Oracle BPEL Process page

- 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.

Oracle Service Bus targets

- 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.

Save Test button

- On the Oracle Service Bus target page, from the Web Services selection above, select the **Test Web Services** menu item. This button is licensed.

Blackouts

- From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, this item under the Control menu is licensed.

Change Activity Plans

- 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.

Faults tab

- From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, select the **Service Engine** menu item, then the **BPEL Engine** submenu item. On the BPEL Engine page, this tab is licensed.

Monitoring, Provisioning, and Configuration menus

- From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, these menus and all sub-items are licensed.

Faults and Rejected Messages, Deployed Composites, and Dehydration Diagnostics tabs

- From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, these tabs are licensed.

Deployment Procedure Links

- 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

Web Services Selections

- 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

SOA Home and Application Dependency and Performance links

- On the Oracle Service Bus target page, click the **Enterprise Manager Cloud Control Middleware** tab. These links are licensed.

Management Pack	Type of Licensing Information	Licensing Information
SOA Management Pack EE	Supported Business Transaction Management Features	**Note:** License to provision SOA Suite, BPM Suite, Oracle Service Bus (OSB), or AIA or related discovered components of those platforms is included as part of SOA Management Pack Enterprise Edition (including user-defined and the built-in "Provision Middleware" deployment procedures).
		IMPORTANT NOTE: The Business Transaction Management (BTM) component will not be shipped with the Oracle Enterprise Manager Cloud Control 13.1 release. However, backwards support to register BTM 12.1.0.7.x or 12.1.0.6.x Servers is supported within the 13.1 release.
		The SOA Management Pack Enterprise Edition includes the following Business Transaction Management features only for Oracle Service Bus and Oracle SOA Suite:
		■ Contextual visibility into SOA and OSB metrics.
		■ Exception management to provide transaction alerting and searching to locate exceptions and errors in transactions that span multiple application components
		■ Transaction discovery to discover, record, and correlate transactions as they flow across components that span multiple JVMs, containers, and platforms.
		■ Transaction-level agreements to provide transaction-level objectives (TLOs) that span multiple interacting components.
SOA Management Pack EE	Business Transaction Management Restricted-Use Licensing	Oracle includes a restricted-use license of Oracle Service Bus (and its subcomponents) for the express purpose of monitoring endpoints for Oracle Enterprise Manager Business Transaction Management, covering creation of Proxy and Business Service in pass-through mode only. Oracle Service Bus may be configured with the Business Transaction Management observer agent in single instance and an additional instance of Oracle Service Bus may be configured for Proxy failover purposes.
SOA Management Pack EE	Licensed Reports	All reports associated with the following target types are part of the SOA Management Pack Enterprise Edition:
		■ Oracle BPEL Process Manager
		■ Oracle Service Bus
		■ SOA Composite
		■ SOA Infrastructure
		■ SOA Partition
SOA Management Pack EE	Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of the SOA Management Pack Enterprise Edition:

```
get_instances
get_instance_data_xml
get_procedures
get_procedure_types
get_procedure_xml
submit_procedure
```

3.3 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	The Management Pack for WebCenter includes: ■ Availability and monitoring of all components. ■ Basic provisioning. ■ Configuration management. ■ Performance monitoring of all components. ■ Historical analysis and reporting. ■ Thresholds and events. ■ Dashboard monitoring.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Features	The Management Pack for WebCenter includes the following features:

The Management Pack for WebCenter includes the following features:

- 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
- Automatic modeling and discovery of management applications displaying multiple views of the application, including the topology, function/flow, and architectural views.
- 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 services and underlying IT components, and report on achieved service levels.
- 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.

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.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Licensed Links	The following are the licensed pages and links for the Management Pack for WebCenter pages:

WebCenter and Portlet Producer right-hand panes

- 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.

ADP Links and Sub-Nodes

- From the **Targets** menu, select **Middleware**. Click **Application Dependency and Performance** under Related Links.

- Within the Management Pack for WebCenter Suite, licensing is restricted to Web Services, J2EE, Portal, WebCenter, and Pageflow components, and does not include BPEL, ESB, AIA, Composites, or OSB components.

- From the Application Dependency and Performance dashboard page, click the **Monitor** tab. These links and menu items are licensed:

  Oracle Enterprise Manager link

  Portals link, all sub-nodes

  WebCenter link, all sub-nodes

  Web Services link, all sub-nodes

  Pageflows link, all sub-nodes

  Services link, all sub-nodes

  Processes link, all sub-nodes

  Applications link, all sub-nodes

  Resources link, all sub-nodes

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for WebCenter	Right-Hand Pane Licensed Links	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.

Application Deployment Menu

- 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

Portlet Producer Monitoring Links and Menus

- 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

Create/End Blackout page

- 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.

WebCenter Monitoring Links and Menus

- 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

Configure tab link

- 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.

Resources tab link

- 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.

Custom Views tab link

- From the upper-left navigation area, click the **Custom Views** tab link. All navigation tree nodes in the lower-left navigation tree 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)	**Middleware Provisioning** ■ 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	WebCenter Management Pack includes the full capabilities of Enterprise Manager Cloud Control Service Level Management. See Enterprise Manager Cloud Control Service Level Management in Chapter 8 for more information.

3.4 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	The Management Pack for Oracle Coherence includes the following features: ■ 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. **Note:** License to provision Coherence products through user-defined procedures is included as part of Management Pack for Oracle Coherence.
Management Pack for Oracle Coherence	Licensed Links	The following are the licensed pages and links for the Management Pack for Oracle Coherence pages: **Oracle Coherence Cluster type links** ■ From the **Targets** menu, select **Middleware**. All links and subordinate pages of the Oracle Coherence Cluster type in the table are licensed.

3.5 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	The Management Pack for Oracle Data Integrator includes the following features: ■ 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. ■ Automatic modeling and discovery for management applications displaying multiple views of the application, including the topology, function/flow, and architectural views. ■ 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 for Oracle Data Integrator	Licensed Links	The following are the licensed pages and links for the Management Pack for Oracle Data Integrator pages: **Oracle Data Integrator home page links** ■ 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. **Oracle Data Integrator target type links** ■ 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.

3.6 Oracle Application Replay Pack

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

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

Management Pack	Type of Licensing Information	Licensing Information
Oracle Application Replay Pack	Requirements	Oracle Application Replay Pack requires Oracle Real User Experience Insight 12.1.0.0 for workload capture. See Oracle Real User Experience Insight in Chapter 8 for more information.
Oracle Application Replay Pack	Features	The Oracle Application Replay Pack includes the following features ■ Workload capture support with zero overhead. ■ Workload replay with characteristics identical to production. ■ Rich reporting support for analysis and problem detection.
Oracle Application Replay Pack	Licensed Links	The following are the licensed pages and links for the Oracle Application Replay Pack pages: **Application Replay page** ■ From the **Enterprise** menu, select **Quality Management**, and then select **Application Replay**. All links and subordinate pages of the Application Replay page are licensed.
Oracle Application Replay Pack	Restricted-Use Licensing	Oracle Enterprise Manager Application Replay Pack includes the following restricted-use licenses: ■ Restricted-use licenses of Real User Experience Insight Accelerators for Oracle E-Business Suite, Fusion Applications, Siebel, PeopleSoft, JD Edwards EnterpriseOne applications are included under the Application Replay license. ■ Restricted-use licenses of Oracle Load Testing Developer Edition and its scripting platform OpenScript for modifying the correlation rules used for handling dynamic application parameters or session information are included under the Oracle Application Replay Pack.

3.7 Business Intelligence Management Pack

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

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

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

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Features	The Business Intelligence Management Pack includes the following features:
		■ 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.
		Note: License to provision Oracle Business Intelligence Enterprise Edition through user-defined procedures is included as part of Business Intelligence Management Pack.

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Supported Oracle BI EE 11g Targets	The licensed pages and links of this pack apply to the following Oracle Business Intelligence EE 11g-specific targets within Enterprise Manager: ■ Oracle BI Instance ■ Oracle BI Cluster Controller ■ Oracle BI Java Host ■ Oracle BI Presentation Server ■ Oracle BI Server ■ Oracle BI Scheduler ■ Essbase Server ■ Essbase Application

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 11g Licensed Links	The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 11g-specific targets within Enterprise Manager: **Oracle BI Instance page** ■ From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Instance**. **Oracle BI Instance Target menu** ■ On the Oracle BI Instance page from the Oracle BI Instance target menu, these items are licensed: Logs* Job Activity Dashboard Reports Scheduler Reports Configuration Compliance ■ **Note:** The log viewer functionality is licensed with the WebLogic Server Management Pack Enterprise Edition. **Availability** ■ On the Oracle BI Instance page, the **Availability** tab and all its sub-tabs are licensed. **Oracle BI Cluster Controller page** ■ From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Cluster Controller**. **Oracle BI Java Host page** ■ From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Java host**. **Oracle BI Presentation Server page** ■ From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Presentation Server**. **Oracle BI Server page** ■ From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Server**. **Oracle BI Scheduler page** ■ From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Scheduler**. **Essbase Server page** ■ From the Enterprise Summary page, click the **Targets** menu, then **All Targets**. On the All Targets page, select a target of type **Essbase Server**. **Essbase Applications page** ■ 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)	The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 11g-specific targets within Enterprise Manager:
		Target Menu
		The Job Activity, Configuration, and Compliance menu items and sub-items are licensed on the following pages:
		■ 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
		Control Menu
		The Create Blackout and End Blackout menu items are licensed on the following pages:
		■ 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:
		Monitoring Menu
		The Performance Summary, Status History, Alert History, and Blackouts menu items are licensed on the following pages:
		■ 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	The licensed pages and links of this pack apply to the following Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager:
		■ 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	The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager: **Oracle BI Analytics Server page** ■ From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Analytics Server**. **Oracle BI Analytics Server Performance page** ■ On the Oracle BI Analytics Server page, select the **Performance** sub-tab. All features on this page are licensed. **Oracle BI Analytics Server Dashboard Reports page** ■ On the Oracle BI Analytics Server page, select the **Dashboard** sub-tab. All features on this page are licensed. **Oracle BI Cluster Controller page** ■ From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Oracle BI Cluster Controller**. **Oracle BI Cluster Controller Members page** ■ On the Oracle BI Cluster Controller page, select the **Members** sub-tab. All features on this page are licensed. **Oracle BI Presentation Server page** ■ 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**. **Oracle BI Presentation Server Performance page** ■ On the Oracle BI Presentation Server page, select the **Performance** sub-tab. All features on this page are licensed. **Oracle BI Scheduler page** ■ 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: Failed BI Jobs Scheduler section Next Schedule Jobs section All links in the System and Service section **Oracle BI Suite Enterprise Edition page** ■ 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: 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 **Target Menu** The Monitoring, Control, Job Activity, Information Publisher Reports, Configuration, Compliance, and Target Setup menu items and sub-items are licensed on the following pages: ■ 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

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 10g Licensed Links (continued)	The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager: **Oracle BI Suite EE Members page** ■ On the Oracle BI Suite Enterprise Edition page, select the **Members** sub-tab. All features on this page are licensed. **Oracle BI Suite Enterprise Edition System Home page** ■ 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. **System Charts page** ■ 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. **System Administration page** ■ 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. **System Components page** ■ 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. **System Topology page** ■ On the Oracle BI Suite Enterprise Edition page, select an **Oracle BI Suite EE** name. From the Oracle BI Suite EE page, select either **System** name or **Service** name. ■ On the corresponding page, select the **Topology** sub-tab. All features on these pages are licensed. **System and Service section** ■ On the Oracle BI Suite Enterprise Edition page, select a **Service name** in the System and Service section. These items are licensed: Black Out button Availability link All links in the Key Component Summary section All links in the Related Links section **Oracle BI Data Warehouse Administration Console (DAC) Server page** ■ 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**. **Oracle BI DAC Server Performance page** ■ From the Oracle BI Data Warehouse Administration Console (DAC) Server page, select the **Performance** sub-tab. All features on this page are licensed.

Management Pack	Type of Licensing Information	Licensing Information
BI Management Pack	Oracle BI EE 10g Licensed Links (continued)	The following licensed pages and links of this pack apply to Oracle Business Intelligence EE 10g-specific targets within Enterprise Manager:

Monitoring Configuration sub-tab

- 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:

  System Configuration

  Root Cause Analysis Configuration

  Service Tests and Beacons

  Availability Definition

  Performance Metrics

  Usage Metrics links

  All links in the Related Links section

Service System page

- 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:

- 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
- Oracle Cloud Management Pack for Testing

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**.

4.1 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	The Oracle Cloud Management Pack for Oracle Database provides the following features:
		■ 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.
		■ 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.
		■ Virtual assembly provisioning of Database VM assemblies (any file in OVA format is considered assemblies).
		■ Snap Clone - a fast, storage-agnostic, space-efficient approach to cloning Oracle Databases.
		This feature supports Oracle Database versions 10g to 12c, including Pluggable databases. Enterprise Manager support for Exadata Sparse Clone, CloneDB, and ACFS Snapshot-based thin cloning of Multitenant 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.
		■ Fleet maintenance provides minimum-downtime patching and upgrades to the database service instances in a cloud pool. This feature helps reduce the software pollution across the database estate.
		■ 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.
		■ Programmatic access to the Self-Service Portal through REST APIs and EMCLIs.
		■ Database-as-a-Service (DBaaS) Rapid Start Kit allows users to set up and configure Cloud Control in under a minute.
		■ Blueprints - orchestration of cloud operations using the cloud REST API.
Oracle Cloud Management Pack for Oracle Database	Prerequisites	The Oracle Cloud Management Pack for Oracle Database requires the Database Lifecycle Management Pack for Oracle Database.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Licensed Links	The following are the licensed pages and links for the Oracle Cloud Management Pack for Oracle Database:

- **Licensed actions**

  From the Database home page, select the **Database** target menu. Select **Provisioning** and then select **Clone and Refresh**. On this page, these actions are licensed:

  Create CloneDB Databases

  Create Snap Clone Databases

  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**.

Snap Clone

From the **Enterprise** menu:

- 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**.

From the multitenant container database home page:

- 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**.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Database	Licensed RESTful APIs	The following RESTful APIs are licensed: ■ **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.

Oracle Cloud Management Pack for Oracle Database	Licensed EMCLI Verbs	The following EMCLI verbs are licensed under the Oracle Cloud Management Pack for Oracle Database:
		
		`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`
		`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`

Oracle Cloud Management Pack for Oracle Database	Licensed Views and Tables	The following objects within the repository schema are licensed under the Oracle Cloud Management Pack for Oracle Database:
		
		■ Tables starting with `EMCT_CBA`.
		
		■ Views starting with `EMCT$CBA`.
		
		■ The 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 Database	Licensed Chargeback Reports	The following BI Publisher reports are licensed under the Oracle Cloud Management Pack for Oracle Database. Also, any report created using "create-like" feature of BI publisher referring the following reports, fall under this license.
		■ Charge Trend Report
		■ Charge Summary Report
		■ Usage Trend Report
		■ Usage Summary Report

4.2 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	The Oracle Cloud Management Pack for Oracle Fusion Middleware provides the following features:
		■ 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.
		■ Virtual assembly provisioning of WebLogic VM assemblies (any file in OVA format is considered assemblies). For example, if there is an assembly topology of three VMs (two WebLogic Server-managed servers and one database), you will need both cloud management packs to cover the respective tiers.
		■ 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
		■ Blueprints. An orchestration of cloud operations using the cloud REST API.
Oracle Cloud Management Pack for Oracle Fusion Middleware	Prerequisites	The Oracle Cloud Management Pack for Oracle Fusion Middleware requires either:
		■ The WebLogic Server Management Pack Enterprise Edition for deploying WebLogic-based applications.
		■ The SOA Management Pack Enterprise Edition for deploying SOA.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Oracle Fusion Middleware	Licensed Links	The following are the licensed pages and links for the Oracle Cloud Management Pack for Oracle Fusion Middleware: ■ **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**.
Oracle Cloud Management Pack for Oracle Fusion Middleware	Licensed APIs	The following APIs are licensed: ■ **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.

Management Pack	Type of Licensing Information	Licensing Information

Oracle Cloud Management Pack for Oracle Fusion Middleware	Licensed Views	The following objects within the repository schema are licensed under the Oracle Cloud Management Pack for Oracle Middleware:
		
		■ 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`

Oracle Cloud Management Pack for Oracle Fusion Middleware	Licensed EMCLI Verbs	The following EMCLI verbs are licensed under the Oracle Cloud Management Pack for Oracle Middleware. These verbs operate on a middleware `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`

Oracle Cloud Management Pack for Oracle Fusion Middleware	Licensed Chargeback Reports	The following BI Publisher reports are licensed under the Oracle Cloud Management Pack for Oracle Middleware. Also, any report created using "create-like" feature of BI publisher referring the following reports, fall under this license. ■ Charge Trend Report ■ Charge Summary Report ■ Usage Trend Report ■ Usage Summary Report

4.3 Oracle Cloud Management Pack for Testing

Oracle Cloud Management Pack for Testing enables businesses to set up their own testing cloud for delivering software testing services. The following sections describe this management pack offered by Enterprise Manager:

Management Pack	Type of Licensing Information	Licensing Information
Oracle Cloud Management Pack for Testing	Feature Summary	Features provided by Oracle Cloud Management Pack for Testing include: ■ Setup for providing cloud infrastructure (virtual and physical). ■ Self-service Assembly provisioning on Oracle VM infrastructure ■ Self-service test environment and test driver provisioning ■ Test script execution ■ Resource control through quotas and retirement policies ■ Flexible resource metering and chargeback for compute resources consumed **Note:** You can define your own testing tools to use with the Oracle Cloud Management Pack for Testing.
Oracle Cloud Management Pack for Testing	Licensed Links	Starting on the Enterprise Summary home page, the following licensed pages and links of this pack apply: ■ Testing Home page From the **Enterprise** menu, select **Cloud**, then **Testing Home**. ■ My Tests From the **Enterprise** menu, select **Cloud**, then **Self Service Portal**. On the Self Service Portal page, select the **My Tests** option, then select the **My Tests** tab. ■ Testing page From the **Setup** menu, select **Cloud**, then select **Testing**.

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 Identify Management:

- Management Pack Plus for Identity Management

5.1 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:
		■ 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	The Management Pack Plus for Identity Management includes the following features:

- **Note:** A management pack license is required to use the features described below in the Enterprise Manager graphical user interface, command-line interface, and published repository views.
- 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.
- 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.
- Single-step discovery of Identity Management 11g and 10g 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.

  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	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Oracle Unified Directory and WebLogic-based Containers Features	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: ■ 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 Plus for Identity Management	WebLogic-based Containers Features	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: ■ "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. *(Applies to applications deployed to both Oracle Application Server and WebLogic Server)* ■ 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 That *Do Not* Apply for GlassFish	The following features are licensed for WebLogic-based containers but *do not* apply for GlassFish included in the Identity Management product restricted-use licensing that are licensed and managed by the Management Pack Plus for Identity Management: ■ 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	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: ■ 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	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:
		■ 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.
		■ 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	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Identity Management 10g Targets	■ 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	■ 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	Oracle Directory Server Enterprise Edition Targets	With the Oracle System Monitoring plug-in for Oracle Directory Server, a simple target discovery is also provided for Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition) 6.x and 7.x, and ODSEE 11gR1. The following Oracle DSEE target types are supported: ■ Directory Server Enterprise ■ Directory Server Enterprise Edition Server ■ Directory Server Group ■ Hosts running Oracle DSEE components

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links	The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager:

Identity and Access page

- 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.

Identity Management 11g Targets

- 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.

Oracle Directory Server Enterprise Edition Targets

- 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.

Access Manager - Access Server page

- 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:

  Black Out button

  Availability link

  Associated Directory Server Information section

  Alerts section

  Host Alerts section

  Configuration section

  Related Links section

Access Manager - Identity Server page

- 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:

  Black Out button

  Availability link

  Associated Directory Server Information section

  Alerts section

  Host Alerts section

  Configuration section

  Related Links section

Access Manager – Identity Server Performance page

- 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.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links (continued)	The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager:

Access Manager - Access System page

- From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Access Manager – Access System**.
- From the **Targets** menu, select **Middleware**. From the **Middleware Features** menu, select **Identity and Access**.
- On the Access Manager - Access System home page, all features on the page are licensed.
- From the Access Manager - Access System home page, select the **Charts** sub-tab. All features on this page are licensed.
- From the Access Manager - Access System home page, select the **Administration** sub-tab. All features on this page are licensed.
- From the Access Manager - Access System home page, select the **Components** sub-tab. All features on this page are licensed.
- From the Access Manager - Access System home page, select the **Topology** sub-tab. All features on this page are licensed.

Access Manager - Identity System

- From the **Targets** menu, select **All Targets**. On the All Targets page, select a target of type **Access Manager – Identity System**.
- From the **Targets** menu, select **Middleware**. From the **Middleware Features** menu, select **Identity and Access**.
- On the Access Manager - Identity System home page, all features on the page are licensed.
- From the Access Manager - Access Identity home page, select the **Charts** sub-tab. All features on this page are licensed.
- From the Access Manager - Access Identity home page, select the **Administration** sub-tab. All features on this page are licensed.
- From the Access Manager - Access Identity home page, select the **Components** sub-tab. All features on this page are licensed.
- From the Access Manager - Access Identity home page, select the **Topology** sub-tab. All features on this page are licensed.

Identity Federation Server

- 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:

  Black Out button

  Availability link

  User Data Store section

  Federation Data Store section

  Alerts section

  Host Alerts section

  Related Links section

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links (continued)	The following licensed pages and links of this pack apply to the following Identity Management-specific targets within Enterprise Manager:

Identity Federation System

- 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.

Identity Manager Repository

- 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:

   Black Out button

   Availability link

   Provisioning section

   Associated Remote Managers section

   Alerts section

   Host Alerts section

   Related Links section

Identity Manager Server

- 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:

   Black Out button

   Availability link

   Alerts section

   Host Alerts section

   Related Links section

Identity Manager Server Performance page

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

Identity Manager System

- 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.

Hosts page with Identity Management Components

- 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

Hosts

- 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 Administration page is only available for Linux operating systems.)
- On the Hosts page, select the **Targets** 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 Outside of Target-Specific Pages	**Application Performance Management** ■ 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. **Compliance** ■ 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. **Configuration Collection Extensibility** ■ 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. **Configuration Compare** ■ 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. **Configuration History** ■ 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. **Configuration Instance Browser** ■ 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. **Configuration Save** ■ 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. **Configuration Search** ■ 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. **Configuration Topology** ■ 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. **Change Activity Plans** ■ 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.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack Plus for Identity Management	Licensed Links Outside of Target-Specific Pages (Continued)	**User Defined Deployment Procedures (UDDP)** ■ 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. **Real-time Configuration Change Detection** ■ 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	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. See Oracle Real User Experience Insight in Chapter 8 for more information about REUI functionality.
Management Pack Plus for Identity Management	Service Level Management Restricted-Use License	Management Pack Plus for Identity Management includes the full capabilities of Enterprise Manager Cloud Control Service Level Management. See Enterprise Manager Cloud Control Service Level Management in Chapter 8 for more information.

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

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

- 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.

- Disaster Recovery via Site Guard to automate complete site failover of Oracle Fusion Middleware and Oracle Database and extend to include other data center components.

  Note: Available for non-Oracle software only. For Oracle software, usage of Site Guard requires licenses for *either* WebLogic Server Management Pack Enterprise Edition *or* Database Lifecycle Management Pack for Oracle Database.

- User Defined Deployment Procedures (UDDP) to automate custom processes by creating a procedure from the start by inserting the required phases, steps, and variables.

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.

- 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).

  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.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Links	The following licensed pages, links, features and functions of this pack apply to host software, platform, Oracle software, and non-Oracle software excluding the Oracle Database. For management of the Oracle Database or to extend these features and functions to the Oracle Database, you must purchase the Database Lifecycle Management Pack for Oracle Database.

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

Configuration Search

■ 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.

Configuration Instance Browser

■ 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.

Configuration History

■ 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.

Configuration Compare

■ 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.

File Synchronization

■ When viewing comparison results differences as described in the Configuration Compare feature, select the configuration specification in the tree on the left. Select **Enable File Synchronization**. All features, functions, links, buttons, and drill-downs on this page are licensed as part of the Configuration Management Pack for Applications.

Configuration Topology

■ 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.

Configuration Save

■ 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.

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Links (continued)	**Configuration Collection Extensibility** ■ 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. **Compliance** ■ 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. **Real-time Configuration Change Detection** ■ 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. **User Defined Deployment Procedures (UDDP)** ■ 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.

Configuration Management Pack for Applications	Licensed CLI Verbs	The following Enterprise Manager Command Line Interface (CLI) verbs are licensed as part of the Configuration Management Pack for Applications:
		
		`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`

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Reports	The following reports are part of the Configuration Management Pack for Applications. All reports, excluding reports associated with, or for the Oracle Database, are licensed for Configuration Management Pack for Applications. To access the reports go to the **Enterprise Manager** home page, click the **Reports**, then **Information Publisher Reports** or **BI Publisher Enterprise Reports**. The following reporting areas, reports and subreports under **Information Publisher Reports** are licensed as part of the Configuration Management Pack for Applications: ■ **Compliance** ■ **Configuration** The following reporting areas, reports and subreports under **BI Publisher Enterprise Reports** are licensed as part of the Configuration Management Pack for Applications: ■ **Compliance** ■ **Configuration**

Configuration Management Pack for Applications	Licensed Configuration Repository Views	The following Configuration repository views are part of the Configuration Management Pack for Applications:
		
		`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`

Management Pack	Type of Licensing Information	Licensing Information
Configuration Management Pack for Applications	Licensed Oracle Home Patching Repository Views	The following Oracle Home Patching repository views are part of the Configuration Management Pack for Applications: 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$APPLIED_PATCHSETS
Configuration Management Pack for Applications	Licensed Compliance Repository Views	The following Compliance repository views are part of the Configuration Management Pack for Applications: MGMT$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

Management Pack	Type of Licensing Information	Licensing Information

Configuration Management Pack for Applications	Licensed Client Configuration Repository Views	The following Client Configuration repository views are part of the Configuration Management Pack for Applications:
		
		`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`

Configuration Management Pack for Applications	Previous Configuration Management Packs	If you have an older Configuration Management pack including: ■ Configuration Management Pack ■ Configuration Management Pack for Oracle Middleware ■ Configuration Management Pack for Non-Oracle Systems You may use all of the features licensed as part of the Configuration Management Pack for Applications only against the previously licensed targets except for the following: ■ Application Configuration Console ■ Configuration Collection Extensibility ■ Creating a custom Comparison Template ■ Using a Comparison Template as part of a Configuration Comparison specification

6.2 Management Pack for Non-Oracle Middleware

This pack improves the availability and performance of Java applications with low overhead deployed on Non-Oracle Middleware (such as, IBM WebSphere Application Server, JBoss Application Server, and Apache Tomcat), 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	The Management Pack for Non-Oracle Middleware includes the following components:
		■ Enterprise Manager system monitoring functionality for IBM WebSphere Application Servers, JBoss Application Servers, and Apache Tomcat.
		■ Enterprise Manager monitoring plug-ins for Microsoft Internet Information Services, Microsoft .NET Framework, and Microsoft BizTalk Server.
		■ Application Dependency and Performance, which can model Java Enterprise Edition applications based on the metadata present and gather metrics on standard Java Enterprise Edition components. The high-level metrics are organized based on their URI mappings, and the lower-level metrics are organized based on their method-level call graph.
		■ Business Transaction Management features only for non-Oracle platforms which can be proxied through the limited use license of Oracle Service Bus.
		■ JVM Diagnostics, which is applicable for Application Servers and standalone Java applications running on supported JVMs. This diagnoses the root cause of Java application performance problems in Java applications with very low performance overhead. See the following My Oracle Support site for the latest information about supporting JVMs and platforms: https://support.oracle.com/rs?type=doc&id=1415144.1
		■ Java Mission Control (JMC), which is applicable for Application Servers and standalone Java applications.
		■ Configuration Management: track inventory, configuration drift and detailed configuration search.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Features	The Management Pack for Non-Oracle Middleware includes the following features:
		▪ Application dependency and performance monitoring to automatically model and discover management applications displaying multiple views of the application, including the topology, function/flow, and architectural views.
		▪ Blackouts suspend monitoring on targets to support scheduled maintenance periods.
		▪ Business transaction monitoring to discover, record, and correlate transactions as they flow across components that may span multiple JVMs, containers, and platforms.
		▪ 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.
		▪ 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.
		▪ 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	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Licensed Links	The following pages are licensed features of the Management Pack for Non-Oracle Middleware:

Page Performance tab

- From the Enterprise Summary page, select the **Targets** tab, then the **Web Applications** sub-tab. Click any Web Application Name in the table. On the Web Application page, this tab is licensed.

Page Performance page

- From the Enterprise Summary page, click the **Page Performance** property page. All links, buttons, and drill-downs on this page are licensed.

Page Performance Related Links

- From the Enterprise Summary page, click the **Page Performance** property page. On the Page Performance page, these links in the Related Links section are licensed:

  Advanced Analysis link

  Alert History link

  Blackouts link

  Metric Baselines link

Oracle JVM Diagnostics pages

- All pages in Oracle JVM Diagnostics are licensed.
- All the links under Oracle JVM Diagnostics in the Oracle Application Diagnostics for Java (AD4J) are licensed.

Availability link

- From the **Targets** menu, select **Middleware**. From the Middleware page, select an **IBM WebSphere Application Server** link. On the IBM WebSphere Application Server page, this link in the General section is licensed.
- From the **Targets** menu, select **Middleware**. From the Middleware page, select a **JBoss Application Server** link. On the JBoss Application Server page, this link in the General section is licensed.
- From the **Targets** menu, select **Middleware**. From the Middleware page, select an **Apache Tomcat Application Server** link. On the Apache Tomcat Application Server page, this link in the General section is licensed.

Performance Links section

- From the **Targets** menu, select **Middleware**. From the Middleware page, select an **IBM WebSphere Application Server** link. On the IBM WebSphere Application Server page, click the **Performance** tab. On the IBM WebSphere Application Server Performance page, all links in this section are licensed.
- From the **Targets** menu, select **Middleware**. From the Middleware page, select a **JBoss Application Server** link. On the JBoss Application Server page, click the **Performance** tab. On the JBoss Application Server Performance page, all links in this section are licensed.

Reports Links section

- From the **Targets** menu, select **Middleware**. On the Middleware page, select an **Apache Tomcat Application Server** link. On the Apache Tomcat Application Server page, click the **Reports** tab. All links in this section are licensed.

Configuration Collection Extensibility

- From the Enterprise Manager home page, click the **Enterprise** menu, **Configuration and Custom**. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Licensed Links (continued)	**Configuration Compare** ■ From the Enterprise Manager home page, click the **Enterprise** menu, then **Configuration and Compare**. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed. **Configuration History** ■ From the **Enterprise** menu, select **Configuration**, and then select **History**. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed. **Configuration Instance Browser** ■ From the **Targets** menu, select **All Targets**. On the All Targets page, select a target excluding the Oracle Database. From the Target home page: select the drop-down under the **Target Type** and **Configuration**. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed. **Configuration Save** ■ From the **Enterprise** menu, select **Configuration**, and then select **Saved**. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed. **Configuration Search** ■ From the **Enterprise** menu, select **Configuration**, and then select **Search**. All features, functions, links, buttons and drill-downs on this page, excluding features and functions that apply to the Oracle Database, are licensed. **Configuration Topology** ■ From **Targets** menu, select **All Targets**. On the All Targets page, select a target, excluding the Oracle Database, then 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. ■ From **Targets** menu, select **All Targets**. On the All Targets page, select a target, excluding the Oracle Database, then 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. **IBM WebSphere Application Server Related Links** ■ From the **Targets** menu, select **Middleware**. From the Middleware page, select an **IBM WebSphere Application Server** link. On the IBM WebSphere Application Server page, these links in the Related links section are licensed: Alert History link and notifications functionality All Metrics link Blackouts link **JBoss Application Server Related Links** ■ From the **Targets** menu, select **Middleware**. From the Middleware page, select a **JBoss Application Server** link. On the JBoss Application Server page, these links in the Related links section are licensed: Alert History link and notifications functionality All Metrics link Blackouts link

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Licensed Links (continued)	**Apache Tomcat Server Related Links** ■ From the **Targets** menu, select **Middleware**. From the Middleware page, select an **Apache Tomcat Application Server** link. On the Apache Tomcat Application Server page, these links in the Related links section are licensed: Alert History link and notifications functionality All Metrics link Blackouts link
Management Pack for non-Oracle Middleware	Oracle Application Dependency and Performance Overview	Oracle Application Dependency and Performance models and monitors Java EE and Web Services applications. This is restricted to Java EE and web services within the Management Pack for Non-Oracle Middleware.
Management Pack for non-Oracle Middleware	Oracle Application Dependency and Performance Features	Oracle Application Dependency and Performance within the Management Pack for Non-Oracle Middleware includes the following features: ■ Automatic modeling and discovery of management applications displaying multiple views of the application, including the topology, function/flow, and architectural views. ■ Contextual visibility into J2EE and web service metrics. ■ Metrics visibility at any layer to automatically generate customized dashboards and views to view metrics at any layer in the application through graphs and tables. ■ Transaction tracing for Java EE metrics both vertically through the application stack and horizontally across containers.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Oracle Application Dependency and Performance Features	**Note:** Within the Management Pack for Non-Oracle Middleware, Application Dependency and Performance licensing is restricted to Java EE and web service components for IBM WebSphere Application Server (WAS), and does not include BPEL, ESB, AIA, Portal, or Pageflow components, nor cover the Oracle WebLogic or OC4J (iAS) platforms. From the Application Dependency and Performance user interface default view, the following links and menu items are licensed features of the Management Pack for Non-Oracle Middleware: **Custom Views tab link** ■ From the upper-left navigation area, click the **Custom Views** tab link. All navigation tree nodes in the lower-left navigation tree and all tabbed pane links and data available in the right pane are licensed. **Dashboard tab link** ■ From the lower-left navigation area, click the **Dashboard** tab link. All navigation tree nodes in the lower-left navigation tree and all tabbed pane links and data available in the right pane are licensed. **Monitor Links** ■ From the upper-left navigation pane, click the **Monitor** tab. These links, including all of the associated links in the right-hand pane, and any pages, views, or links and the items they contain are licensed. 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. Oracle Enterprise Manager link Web Services link Services link Processes link Applications link Resources link CAMM link **Menu Items and Navigation Bars** ■ All drop-down menu items and sub-items, navigation bars, lower information bar (bottom of interface), and time frame modification features at the top of the Application Dependency and Performance user interface are licensed, including the accessible links from these drop-down menus. Manager -> Status Manager -> Logout Queries -> URL Query Dashboard -> Custom Views Dashboard -> Set Custom Dashboard Help -> Help Topics Help -> Memory Information Help -> About Oracle Application Dependency and Performance
Management Pack for non-Oracle Middleware	Restricted-Use License	Management Pack for Non-Oracle Middleware includes the full capabilities of Enterprise Manager Cloud Control Service Level Management. See Enterprise Manager Cloud Control Service Level Management in Chapter 8 for more information.

Management Pack	Type of Licensing Information	Licensing Information
Management Pack for non-Oracle Middleware	Business Transaction Management Features	The Management Pack for Non-Oracle Middleware includes Business Transaction Management (BTM) features only for non-Oracle platforms which can be proxied through the limited use license of Oracle Service Bus. BTM within Management Pack for Non-Oracle Middleware Application Dependency and Performance includes the following features: ■ Contextual visibility into Java EE and .NET metrics ■ Exception management provides transaction alerting and searching to locate exceptions and errors in transactions that span multiple application components. ■ Transaction Management to discover, record, and correlate transactions as they flow across components that may span multiple JVMs, containers, and platforms. ■ Transaction-level agreements provide transaction-level objectives (TLOs) that span multiple interacting components.
Management Pack for non-Oracle Middleware	Business Transaction Management Restricted-Use License	Oracle includes a restricted-use license of Oracle Service Bus (and its subcomponents) for the express purpose of monitoring endpoints for Enterprise Manager Business Transaction Management, covering creation of Proxy and Business Service in pass-through mode only. Oracle Service Bus may be configured with the Business Transaction Management observer agent in single instance and an additional instance of Oracle Service Bus may be configured for Proxy failover purposes.

6.3 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
Apache HTTP Server	Documentation Resources	See the "Discovering and Monitoring Apache HTTP Server" chapter in the *Oracle Enterprise Manager Cloud Control Oracle Fusion Middleware Management Guide*: http://docs.oracle.com/cd/E24628_01/install.121/e24215/apache.htm
IBM WebSphere MQ	Documentation Resources	See the "Discovering and Monitoring IBM WebSphere MQ" chapter in the *Oracle Enterprise Manager Cloud Control Oracle Fusion Middleware Management Guide*: http://docs.oracle.com/cd/E24628_01/install.121/e24215/wmq.htm
Microsoft Active Directory	Documentation Resources	*Oracle Enterprise Manager System Monitoring Plug-in Installation Guide for Microsoft Active Directory*: http://docs.oracle.com/cd/E24628_01/install.121/e28548/toc.htm

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
Apache HTTP Server	Features	The following features are available for Apache HTTP Server management: ■ Real-time and historical availability monitoring ■ Event management/monitoring ■ Event/alert notifications: notification methods, rules and schedules ■ Event/alert history/metric history ■ Metric extensions ■ Blackouts/planned outages ■ Monitoring templates ■ Availability and event reports ■ Repository tables and views that store or expose the above data ■ Configuration Management: Configuration Collection Extensibility, Configuration Compare (not including the use of Comparison Templates), Configuration History, Configuration Instance Browser, Configuration Save, and Configuration Search
IBM WebSphere MQ and Microsoft Active Directory	Features	The following features are available for the IBM WebSphere MQ and Microsoft Active Directory plug-ins: ■ Real-time and historical performance monitoring and trending ■ Event management/monitoring ■ Event/alert notifications: notification methods, rules and schedules ■ Event/alert history/metric history ■ Metric extensions ■ Blackouts/planned outages ■ Monitoring templates ■ Performance and event reports ■ Repository tables and views that store or expose the above data ■ Distributed management through groups and systems ■ Configuration Extensions to allow for addition of custom configuration files.

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
Apache HTTP Server	General Monitoring Licensed Links	The following list of links and navigation to them correspond with managing Apache HTTP Server in Oracle Enterprise Manager Cloud Control 13*c* and are licensed as part of the System Monitoring Plug-in for Non-Oracle Middleware.

Home page

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, all links are licensed.

Create Blackout

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page, then select **Blackout**. All links, menu items, tabs, and sections on this page are licensed.

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page, then select the **Target** menu, then **Control**, and finally **Create Blackout**. All links, menu items, tabs, and sections on this page are licensed

End Blackout

- From the Targets menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page, then select **End Blackout**. All links, menu items, tabs, and sections on this page are licensed.

- From the Targets menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page, then select the **Target** menu, then **Control**, and finally **End Blackout**. All links, menu items, tabs, and sections on this page are licensed.

All Metrics

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Monitoring**, and finally **All Metrics**. All links, menu items, tabs, and sections on this page are licensed.

Status History

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Monitoring**, and finally **Status History**. All links, menu items, tabs, and sections on this page are licensed.

Alert History

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Monitoring**, and finally **Alert History**. All links, menu items, tabs, and sections on this page are licensed.

Blackouts

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Monitoring**, and finally **Blackouts**. All links, menu items, tabs, and sections on this page are licensed.

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
Apache HTTP Server	Configuration Management Licensed Links	The following list of links and navigation to them correspond with managing Apache HTTP Server in Oracle Enterprise Manager Cloud Control 13*c* and are licensed as part of the System Monitoring Plug-in for Non-Oracle Middleware.

Last Collected

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Last Collected**. All links, menu items, tabs, and sections on this page are licensed.

Compare

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Compare**. All links, menu items, tabs, and sections on this page are licensed.

Search

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Search**. All links, menu items, tabs, and sections on this page are licensed.

History

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **History**. All links, menu items, tabs, and sections on this page are licensed.

Save…

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Save…**. All links, menu items, tabs, and sections on this page are licensed.

Saved

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Saved**. All links, menu items, tabs, and sections on this page are licensed.

Topology

- From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Configuration**, and finally **Topology**. All links, menu items, tabs, and sections on this page are licensed.

System Monitoring Plug-in	Type of Licensing Information	Licensing Information
Apache HTTP Server	Compliance Management Licensed Links	The following list of links and navigation to them correspond with managing Apache HTTP Server in Oracle Enterprise Manager Cloud Control 13*c* and are licensed as part of the System Monitoring Plug-in for Non-Oracle Middleware. **Results** - From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Compliance**, and finally **Results**. All links, menu items, tabs, and sections on this page are licensed. **Standard Associations** - From the **Targets** menu, select **All Targets** and then select **Apache HTTP Server** target type to display all Apache HTTP Server targets. Select an Apache HTTP Server target to navigate to its home page. On this page, select the **Target** menu, then **Compliance**, and finally **Standard Associations**. All links, menu items, tabs, and sections on this page are licensed.
IBM WebSphere MQ	Queue Manager Licensed Links	The following list of links and navigation to them correspond with managing IBM WebSphere MQ Queue Manager in Oracle Enterprise Manager Cloud Control 13*c* and are licensed as part of the System Monitoring Plug-in for Non-Oracle Middleware. **IBM WebSphere MQ Queue Manager plug-in** From the **Setup** menu, select **Agents**. All links and subordinate pages of the IBM WebSphere MQ Queue Manager plug-in are licensed.
System Monitoring Plug-ins for non-Oracle Middleware	Licensed CLI Verbs	The following command line interface (CLI) verb (as it relates to adding non-Oracle middleware) is licensed as part of the System Monitoring Plug-in for Non-Oracle Middleware: **Note:** There are no EM CLI verbs associated with Apache HTTP Server that are licensable. `add_target` The internal names to be used with the `add_target` verb are: `wmq` (See note below.) `active_directory` **Note:** For `wmq`, another `jar` file is needed after executing the `add_target` command. After adding the target, modify the `jar` PATH property from the "Monitoring Configuration link" by appending the following path: `/scratch/mqjars/com.ibm.mq.jar` Use a colon as a separator between the two `jar` files if the agent is Linux-based, and a semicolon if the agent is Windows-based.

6.4 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	The following features are available for these plug-ins: ■ 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. To use these features, you must license the System Monitoring Plug-ins for Non-Oracle Database.
System Monitoring Plug-ins for non-Oracle Database	Licensed Links	The list that follows itemizes the links that require licensing of the plug-ins. You can navigate to these features in several ways. The list that follows assumes that you begin from the main Enterprise Manager Cloud Control home page. 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: ■ Microsoft SQL Server ■ IBM DB2 Database ■ Sybase Adaptive Server Enterprise
System Monitoring Plug-ins for non-Oracle Database	Licensed CLI Verbs	The following command line interface (CLI) verb is licensed as part of the System Monitoring Plug-in for Non-Oracle Databases: ■ `add_target` The internal names to be used with the add_target verb are: ■ `microsoft_sqlserver_database` ■ `ibm_db2_database` ■ `sybase_ase`

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

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

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

All the capabilities for Oracle Real User Experience Insight as documented in Chapter 8, "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.

Features

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

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Licensed Links	The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for Siebel.
		Siebel System Targets page
		■ 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.
		Add Siebel Enterprise page
		■ 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.
		Siebel Enterprise Home
		■ 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.
		Siebel Server Home
		■ 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.
		Siebel Enterprise resultant page
		■ 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.
		Siebel Gateway Server Home Page
		■ 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.
		Siebel Component Page
		■ From the **Targets** menu, select **All Targets**. On the All Targets page, click **Siebel Component** under Applications. The resultant page contents are licensed features.
		Siebel Database Repository Page
		■ 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.
Application Management Suite for Siebel	Support for Service Level Management (SLM)	Features associated with Enterprise Manager Cloud Control Service Level Management (SLM) are also licensed as part of the Oracle Application Management Suite for Siebel. These SLM features are restricted for use with Siebel applications and only for the CPUs licensed. They cannot be used for extensions to Siebel. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL.
		SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met.
		See Enterprise Manager Cloud Control Service Level Management in Chapter 8 for more information.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	SLM Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for Siebel: ``` emcli apply_template_tests emcli create_service emcli add_target ```
Application Management Suite for Siebel	Support for Configuration Management	Configuration management automates the process of managing host software and hardware configurations and deployments. The configuration management features that are licensed as part of the Oracle Application Management Suite for Siebel provides capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for Siebel-specific software components, which include: ■ Siebel Enterprise ■ Siebel 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)
Application Management Suite for Siebel	Configuration Management Features	Configuration Management features of the Application Management Suite for Siebel enable users to: ■ View and analyze configuration ■ View and analyze deployments/installations ■ Search configuration ■ Compare configuration ■ Manage policies, including policy notifications ■ Provide configuration reports ■ Provide repository tables/views that store/expose configuration data Application Management Suite for Siebel provides comprehensive configuration management capabilities for operating system targets and Siebel application targets as specified above.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Links	The following licensed pages and links of this product apply to Siebel-specific targets within Enterprise Manager. These targets include Siebel Enterprise, Siebel Server, Siebel Component Group, Siebel Component, Siebel Required Component Group, Siebel Functional Component Group, Siebel Database Repository, Siebel Gateway Server, Siebel Application Service (HI), and Siebel Application Service (SI).
		All Targets Policy Violations links
		■ From the Enterprise Summary page, all links in the All Targets Policy Violations section are licensed.
		Hardware and Operating System related information
		■ From the Enterprise Summary page, all Hardware and Operating System related information in the Deployment Summary section are licensed.
		■ From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all Hardware and Operating System related information in the Deployment Summary section are licensed.
		■ From the Groups home page, click the **Administration** tab. All Hardware and Operating System related information in the Deployment Summary section are licensed.
		Security Policy Violations links
		■ From the Enterprise Summary page, all links in the Security Policy Violations section are licensed.
		Configuration section links
		■ From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all links in the Configuration section are licensed.
		Client Configuration section links
		■ From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all links in the Client Configuration section are licensed
		Policy Violation page links
		■ From the Enterprise Summary home page, click the **Compliance** menu, then **Policies**. On the Policy Violations page, all links, sub-navigation tabs, and features available on or linked to from the Cloud Control Policies Violations page for information related to hosts are licensed.
		Security at a Glance host links
		■ From the Enterprise Summary home page, click the **Compliance** menu, then **Security at a Glance**. On the Security at a Glance page, all links related to information on the host are licensed.
		Policy Violations link and Compliance Score (%)
		■ From the **Targets** menu, select **Hosts**. On the Hosts page, these links are licensed.
		Configuration section links, Policy Violations section links, Security section links, Deployments link, and Metric and Policy Settings link (Related Links)
		■ From the Hosts page, click a specific host to display the **Host Home** page. These links are licensed.
		Configuration page
		■ From the Host page, click the **Configuration** tab. All features, links, and information on the page are licensed.
		Policy Violations link
		■ From the **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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Links (continued)	**Configuration Changes, Policy Violations, Security Policy Violations sections** ■ From the **Targets** menu, select **Groups**. Select a group. On the Group Home page, all links in these sections are licensed. **Configuration Searches for host and operating system** ■ From the Groups home page, click the **Administration** tab. This feature is licensed. **Policy Violations column** ■ From the Groups home page, click the **Members** tab. All links and information in this column is licensed
Application Management Suite for Siebel	Configuration Management Licensed Reports	The following reports are part of the licensed features of Configuration Management within the Application Management Suite for Siebel. All reports in each of these sections are features of Configuration Management within the Application Management Suite for Siebel. To display the Report Definitions page, click the **Reports** menu on the Enterprise Summary home page. ■ All reports under **Deployment and Configuration** ■ Monitoring reports: **Alerts and Policy Violations** **Disabled Policies** ■ Security reports: **Security Policy Overview**

Application Management Suite for Siebel	Configuration Management Licensed Policy Repository Views	The following policy repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:
		
		Policy Definition Views
		
		`mgmt$policies`
		`mgmt$policy_parameters`
		`mgmt$policy_violation_ctxt`
		`mgmt$policy_viol_annotations`
		`mgmt$policy_viol_notif_log`
		
		Policy Association Views
		
		`mgmt$target_policies`
		`mgmt$target_policy_settings`
		`mgmt$target_policy_eval_sum`
		`mgmt$target_compliance_score`
		
		Policy Violation Views
		
		`mgmt$policy_violation_current`
		`mgmt$policy_violation_history`
		`mgmt$policy_violation_context`

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for Siebel	Configuration Management Licensed Patching Repository Views	The following patching repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:
		
		Linux Patching
		
		`MGMT$HOSTPATCH_HOSTS`
		`MGMT$HOSTPATCH_GROUPS`
		`MGMT$HOSTPATCH_GRP_COMPL_HIST`
		`MGMT$HOSTPATCH_HOST_COMPL`
		
		Oracle Home Patching
		
		`MGMT$CPF_ADVISORY_INFO`
		`MGMT$CPF_HOMES_INFO`
		`MGMT$CPF_PATCH_INFO`
		`MGMT$EM_HOMES_PLATFORM`
		`MGMT$HOMES_AFFECTED`
		`MGMT$PATCH_ADVISORIES`
		`MGMT$APPL_PATCH_AND_PATCHSET`
		`MGMT$APPLIED_PATCHES`
		`MGMT$APPLIED_PATCHSETS`

Application Management Suite for Siebel	Configuration Management Licensed Security Repository Views	The following security repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:
		
		`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`

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Siebel	Configuration Management Licensed Configuration Repository Views	The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for Siebel:
		Configuration Views

		`mgmt$db_tablespaces`
		`mgmt$db_datafiles`
		`mgmt$db_controlfiles`

		Client Configuration Views

		`MGMT$CSA_COLLECTIONS`
		`MGMT$CSA_FAILED`
		`MGMT$CSA_HOST_OS_COMPONENTS`
		`MGMT$CSA_HOST_SW`
		`MGMT$CSA_HOST_COOKIES`
		`MGMT$CSA_HOST_CUSTOM`
		`MGMT$CSA_HOST_RULES`
		`MGMT$CSA_HOST_CPUS`
		`MGMT$CSA_HOST_IOCARDS`
		`MGMT$CSA_HOST_NICS`
		`MGMT$CSA_HOST_OS_PROPERTIES`
		`MGMT$CSA_HOST_OS_FILESYSEMS`
		`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`

Application Management Suite for Siebel	Support for Oracle HTTP Server	You can only use the following pages against Oracle HTTP Servers, which are front ending Siebel applications. You must obtain a full use license of the Oracle Middleware Management Pack to manage Oracle HTTP Servers, which are used for other purposes. ■ All pages in Oracle HTTP Server home page and subsequent pages within the process are licensed features of Application Management Suite for Siebel.

7.2 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	The Application Management Pack for Fusion Applications provides features under four different categories: ■ Discovery and Monitoring ■ Applications Performance Management ■ Middleware Management ■ Technical Configuration Management ■ Life Cycle Automation The Application Management Pack for Fusion Applications includes the following features: ■ 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. ■ 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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Features (continued)	The Application Management Pack for Fusion Applications includes the following features: ■ 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.
Application Management Pack for Fusion Applications	Licensed Links	The following information describes the Enterprise Manager links that require licensing of the Application Management Pack for Oracle Fusion Applications: **Fusion Instance page** ■ From the **Targets** menu, select **Fusion Applications**. This page and all related links in this page are licensed. **Add Fusion Instance page** ■ 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. **Fusion Instance Home** ■ 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. **Fusion Product Family Home** ■ 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. **Fusion Product Home** ■ 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. **Change Activity Plans** ■ 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. **Middleware** ■ 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.
Application Management Pack for Fusion Applications	Support for Service Level Management (SLM)	Features associated with Enterprise Manager Cloud Control Service Level Management (SLM) are also licensed as part of the Oracle Application Management Pack for Fusion Applications. These SLM features are restricted for use with Fusion applications and only for the CPUs licensed. SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met. See Enterprise Manager Cloud Control Service Level Management in Chapter 8 for more information.

Management Pack	Type of Licensing Information	Licensing Information

Application Management Pack for Fusion Applications	SLM Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Pack for Fusion Applications:
		
		`emcli apply_template_tests`
		`emcli create_service`
		`emcli add_target`

Application Management Pack for Fusion Applications	Support for Middleware Management	The Application Management Pack for Fusion Applications includes many of the capabilities included in WebLogic Server Management Pack Enterprise Edition and SOA Management Pack Enterprise Edition, as described in Chapter 3, "Oracle Middleware Enterprise Management". The licensing for "Business Transaction Monitoring (BTM)" functionality, a component of WebLogic Management Pack Enterprise Edition and SOA Management Pack Enterprise Edition, is excluded from this license. Customers who want to use BTM for the management of Fusion Applications should refer to Application Management Suite for Fusion Applications. The use of WebLogic Management Pack Enterprise Edition and SOA Management Pack Enterprise Edition is limited to the management and monitoring of Fusion Applications, and any targets that host or execute Fusion Application components. Customers who want to use either pack to monitor other applications need to obtain a full-use license of the product(s). Refer to Chapter 3, "Oracle Middleware Enterprise Management" for a detailed explanation of features, capabilities, and licensed links.
Application Management Pack for Fusion Applications	Support for Configuration Management	Configuration management automates the process of managing host software and hardware configurations and deployments. Application Management Pack for Fusion Applications provides only technology related configuration management support. The configuration management features that are licensed as part of this license provides capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for Fusion-specific software components, which include: ■ Oracle Fusion Instance ■ Oracle 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

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Configuration Management Features	Configuration Management features of the Application Management Pack for Fusion Application enable users to: ■ View and analyze configuration ■ View and analyze deployments/installations ■ Search configuration ■ Compare configuration ■ Manage policies, including policy notifications ■ Provide configuration reports ■ Provide repository tables/views that store/expose configuration data Application Management Pack for Fusion Applications provides comprehensive configuration management capabilities for operating system targets and Fusion application targets as specified above.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Configuration Management Licensed Links	The following licensed pages and links of this product apply to Fusion-specific targets within Enterprise Manager. These targets include Fusion Instance, Fusion Product Family, Fusion Product, Fusion Cluster J2EE Application, Fusion J2EE Application, Fusion Database Repository, WebLogic Cluster, WebLogic Server, Java Virtual Machine, Cluster J2EE Application and J2EE Application.

All Targets Policy Violations links

- From the Enterprise Summary page, all links in the All Targets Policy Violations section are licensed.

Hardware and Operating System related information

- From the Enterprise Summary page, all Hardware and Operating System related information in the Deployment Summary section are licensed.

- From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all Hardware and Operating System related information in the Deployment Summary section are licensed.

- From the Groups home page, click the **Administration** tab. All Hardware and Operating System related information in the Deployment Summary section are licensed.

Security Policy Violations links

- From the Enterprise Summary page, all links in the Security Policy Violations section are licensed.

Configuration section links

- From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all links in the Configuration section are licensed.

Client Configuration section links

- From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all links in the Client Configuration section are licensed.

Configuration section links, Policy Violations section links, Security section links, Deployments link, and Metric and Policy Settings link (Related Links)

- From the Hosts page, click a **specific host** to display the Host Home page. These links are licensed.

Policy Violations link

- From the **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.

Security at a Glance host links

- From the Enterprise Summary home page, click the **Compliance** menu, then **Security at a Glance**. On the Security at a Glance page, all links related to information on the host are licensed.

Policy Violations link and Compliance Score (%)

- From the **Targets** menu, select **Hosts**. On the Hosts page, these links are licensed.

Configuration page

- From the Host page, click the **Configuration** tab. All features, links, and information on the page are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Configuration Management Licensed Links (continued)	**Policy Violation page link** ■ From the Enterprise Summary home page, click the **Compliance** menu, then **Policies**. On the Policy Violations page, all links, sub-navigation tabs, and features available on or linked to from the Cloud Control Policies Violations page for information related to hosts are licensed. **Configuration Changes, Policy Violations, Security Policy Violations sections** ■ From the **Targets** menu, select **Groups**. Select a group. On the Group Home page, all links in these sections are licensed. **Configuration Searches for host and operating system** ■ From the Groups home page, click the **Administration** tab. This feature is licensed. **Policy Violations column** ■ From the Groups home page, click the **Members** tab. All links and information in this column is licensed.
Application Management Pack for Fusion Applications	Configuration Management Licensed Reports	The following reports are part of the licensed features of Configuration Management within the Application Management Pack for Fusion Applications. All reports in each of these sections are features of Configuration Management within the Application Management Suite for Fusion Applications. To display the Report Definitions page, click the **Reports** menu on the Enterprise Summary home page. ■ All reports under **Deployment and Configuration** ■ Monitoring reports: **Alerts and Policy Violations** **Disabled Policies** ■ Security reports: **Security Policy Overview**

Application Management Pack for Fusion Applications	Configuration Management Licensed Policy Repository Views	The following policy repository views are licensed features of Configuration Management within the Application Management Pack for Fusion Applications:
		
		Policy Definition Views
		
		`mgmt$policies`
		`mgmt$policy_parameters`
		`mgmt$policy_violation_ctxt`
		`mgmt$policy_viol_annotations`
		`mgmt$policy_viol_notif_log`
		
		Policy Association Views
		
		`mgmt$target_policies`
		`mgmt$target_policy_settings`
		`mgmt$target_policy_eval_sum`
		`mgmt$target_compliance_score`
		
		Policy Violation Views
		
		`mgmt$policy_violation_current`
		`mgmt$policy_violation_history`
		`mgmt$policy_violation_context`

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Configuration Management Licensed Patching Repository Views	The following patching repository views are licensed features of Configuration Management within the Application Management Pack for Fusion Applications:

Linux Patching

```
MGMT$HOSTPATCH_HOSTS
MGMT$HOSTPATCH_GROUPS
MGMT$HOSTPATCH_GRP_COMPL_HIST
MGMT$HOSTPATCH_HOST_COMPL
```

Oracle Home Patching

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

Management Pack	Type of Licensing Information	Licensing Information
Application Management Pack for Fusion Applications	Configuration Management Licensed Configuration Repository Views	The following configuration repository views are licensed features of Configuration Management within the Application Management Pack for Fusion Applications:

Configuration Views

```
mgmt$db_tablespaces
mgmt$db_datafiles
mgmt$db_controlfiles
```

Client Configuration Views

```
MGMT$CSA_COLLECTIONS
MGMT$CSA_FAILED
MGMT$CSA_HOST_OS_COMPONENTS
MGMT$CSA_HOST_SW
MGMT$CSA_HOST_COOKIES
MGMT$CSA_HOST_CUSTOM
MGMT$CSA_HOST_RULES
MGMT$CSA_HOST_CPUS
MGMT$CSA_HOST_IOCARDS
MGMT$CSA_HOST_NICS
MGMT$CSA_HOST_OS_PROPERTIES
MGMT$CSA_HOST_OS_FILESYSEMS
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
```

Management Pack	Type of Licensing Information	Licensing Information

Application Management Pack for Fusion Applications	Configuration Management Licensed Security Repository Views	The following security repository views are licensed features of Configuration Management within the Application Management Pack for Fusion Applications:
		
		`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`

7.3 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	The Application Management Suite for Fusion Applications provides the following features, limited to Oracle Fusion Applications environments: ■ Real User Experience Insight (RUEI), with Oracle Fusion Apps accelerator. ■ Business Transaction Management. ■ Functional Configuration Management.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Fusion Applications	Support for Real User Experience Insight (RUEI)	Application Management Suite for Fusion Application Real User Monitoring provides an out-of-the-box real-user monitoring solution for Fusion applications that automatically discovers Fusion applications and translates network objects to business functions, thereby allowing measurement and monitoring of real-user transactions — from clicks to views into business transactions.

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

All the capabilities for Oracle Real User Experience Insight (RUEI) as documented in Chapter 8, "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. |
| Application Management Suite for Fusion Applications | RUEI Features | ■ Provides an out-of-the-box, real-user monitoring solution for Fusion Applications.

■ Provides out-of-box translation and reporting of error messages in the user's window.

■ Enables application managers to set up KPIs for critical packaged applications.

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

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Fusion Applications	Support for Business Transaction Monitoring (BTM)	Business Transaction Monitoring (BTM) allows customers to monitor, troubleshoot, report, and manage mission critical transaction flows for their organization.
		Business application owners and operational staff can automatically discover and correlate your SOA composites, components, services, and back-end Java EE implementations through detailed modeling and drill-down directly into the performance metrics at the component level. Business transactions and service dependencies can be automatically discovered and the message flows mapped. Details about individual and aggregate transaction execution can be searched for and displayed.
		By providing and maintaining the business context while traversing your organization's application infrastructure, your developers and operational staff can leverage Oracle Enterprise Manager to meet the high availability and top performance criteria necessary to maximize business results.
		Oracle Enterprise Manager enables your application development and support teams to:
		■ Continuously discover components, transaction flow, service dependencies and relationships.
		■ Monitor business transactions as they flow across tiers.
		■ Manage Oracle SOA Suite applications with minimal manual effort, regardless of application-specific knowledge or programming expertise.
		■ View aggregated dependences or drill-down to method-level interactions.
		■ Monitor endpoint performance with booth synthetic service tests and deep component implementation visibility.
		■ Search and analyze single instance transaction performance, with built-in report generation for slowest running or faulted instances.
		■ Link to related diagnostic and database metrics, taking advantage of SOA Suite specific knowledge.
		■ Quickly isolate and diagnose the root cause of SOA application performance problems in QA, staging, and production environments.
Application Management Suite for Fusion Applications	BTM Restricted-Use Licensed	This licensing agreement is a restricted-use license for Business Transaction Monitoring, and only allows BTM to be used for monitoring Fusion Applications. Customers who want to use BTM to monitor other applications need to obtain a full-use license of the product.
		Oracle includes a restricted-use license of Oracle Service Bus (and its subcomponents) for the express purpose of monitoring endpoints for Oracle Enterprise Manager Business Transaction Management, covering creation of Proxy and Business Service in pass-through mode only. Oracle Service Bus may be configured with the Business Transaction Management observer agent in single instance and an additional instance of Oracle Service Bus may be configured for Proxy fail-over purposes.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Fusion Applications	BTM Features	The SOA Management Pack Enterprise Edition includes the following Business Transaction Management features only for Oracle Service Bus and Oracle SOA Suite: ■ Contextual visibility Provide drill-down contextual visibility into SOA and OSB metrics. ■ Exception management Provide transaction alerting and searching to locate exceptions and errors in transactions that span multiple application components. ■ Transaction discovery Discover, record, and correlate transactions as they flow across components that span multiple JVMs, containers, and platforms. ■ Transaction-level agreements Provide transaction-level objectives (TLOs) that span multiple interacting components.
Application Management Suite for Fusion Applications	Configuration Management Features	Functional configuration management automates the process of capturing and reporting on Fusion Applications functional configuration/setup data. Functional configuration management features of the Application Management Suite for Fusion Application enable users to: ■ View and analyze configuration. ■ View and analyze deployments/installations. ■ Search configuration. ■ Capture/snapshot functional configuration data, on an ad-hoc and recurring basis. ■ Perform complex comparison operations, either between instances or over time. ■ Versioning of configuration settings. ■ Compliance and Health Check capabilities for supportability and auditing purpose. ■ Manage policies, including policy notifications. ■ Provide configuration reports. ■ Provide repository tables/views that store/expose configuration data. The configuration management features that are licensed as part of this license provides capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for Fusion-specific software components, which include: ■ Oracle Fusion Instance. ■ Oracle Fusion Product Family. ■ Oracle Fusion Product. ■ Oracle Fusion Cluster J2EE Application. ■ Oracle Fusion J2EE Application. Application Management Suite for Fusion Applications provides comprehensive configuration management capabilities for operating system targets and Fusion application targets as specified above.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Fusion Applications	Configuration Management Licensed Reports	The following reports are part of the licensed features of Configuration Management within the Application Management Suite for Fusion Applications. All reports in each of these sections are features of Configuration Management within the Application Management Suite for Fusion Applications. To display the Report Definitions page, click the **Reports** menu on the Enterprise Summary home page. ■ All reports under **Deployment and Configuration** ■ Monitoring reports: **Alerts and Policy Violations** **Disabled Policies** ■ Security reports: **Security Policy Overview**

7.4 Application Management Suite for Oracle E-Business Suite

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

In addition, the Change Management capabilities provided a centralized view to monitor and orchestrate changes across multiple Oracle E-Business Suite systems. The Application Management Suite for Oracle E-Business Suite offers the capabilities to manage changes introduced by customizations and patches during implementation or maintenance activities.

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

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Features	The Application Management Suite for Oracle E-Business Suite includes the following features: ■ 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. ■ 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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Features (continued)	■ 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.
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 Chapter 8, "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	■ 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	The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for Oracle E-Business Suite:
		All Oracle E-Business Suite Systems page
		- From the **Targets** menu, select **Oracle E-Business Suite**. This page is licensed.
		Add All Oracle E-Business Suite Targets page
		- 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.
		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
		- 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.
		Change Approval Request, Patch Manager, and Customization Manager
		- From the Oracle E-Business System page, click a link for **Change Management**. On the Change Management page, the summary and links to these items are licensed.
		Oracle E-Business Suite Nodes System Home, Charts, Administration, Components and Topology pages
		- From the **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.
		Oracle E-Business Suite System Home, Charts, Administration, Components and Topology pages
		- 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.
Application Management Suite for Oracle E-Business Suite	Support for Service Level Management (SLM)	Features associated with Enterprise Manager Cloud Control Service Level Management (SLM) are also licensed as part of the Oracle Application Management Suite for Oracle E-Business Suite. These SLM features are restricted for use with Oracle E-Business Suite applications and only for the CPUs licensed. They cannot be used for extensions to Oracle E-Business Suite. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL.
		SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. Using service tests or synthetic transactions executed from remote user locations (beacons), businesses can monitor services from the end user's perspective and its correlation to the underlying IT infrastructure. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met.
		See Enterprise Manager Cloud Control Service Level Management in Chapter 8 for more information.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	SLM Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for Oracle E-Business Suite:
| | | ```
emcli apply_template_tests
emcli create_service
emcli add_target
``` |
Application Management Suite for Oracle E-Business Suite	Support for Configuration Management	Configuration Management automates the time-consuming and often error-prone process of managing software configurations and deployments. The Configuration Management features that are licensed as part of the Application Management Suite for Oracle E-Business Suite provide capabilities such as search and compare across all systems, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for E-Business Suite-specific software components, which include:
		■ Oracle Concurrent Manager
		■ Oracle E-Business Suite
		■ Oracle E-Business Suite Custom Objects Definition
		■ Oracle E-Business Suite System
		■ Oracle E-Business Suite Patch Information Configuration
		■ Oracle E-Business Suite Workflow
Application Management Suite for Oracle E-Business Suite	Features	The Configuration Management features of the Application Management Suite for E-Business Suite enable users to:
		■ View and analyze configurations
		■ View and analyze deployments and installations
		■ Search configurations
		■ Compare configurations
		■ Provide configuration reports
		■ Provide repository tables and views that store and expose configuration data
		■ History to view a list of configuration changes made to the target
		■ Refresh option to manually refresh the configuration data
		Application Management Suite for Oracle E-Business Suite includes a limited use license of Application Configuration Console (ACC) and Configuration Change Console (CCC). These two tools can be used against Oracle E-Business Suite application targets as specified above, and operating system targets. Licensing information for ACC and CCC is available in Chapter 6, "Other Infrastructure Management" in the Configuration Management Pack for Applications section.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Links	The following licensed pages and links of this pack apply to Oracle E-Business Suite-specific software components within Enterprise Manager. These components include those listed above.

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.

All Targets Policy Violations section

- On the Enterprise Summary home page, all links in this section are licensed.

All Oracle E-Business Suite Targets page

- 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.

Deployment Summary section

- 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.

Security Policy Violations section

- On the Enterprise Summary home page, all links in this section are licensed.

Configuration section

- 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.

Client Configuration section

- From the Enterprise Summary home page, click the **Deployments** menu. On the Deployments page, all links in this section are licensed.

Policy Violations page

- 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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Links (continued)	**Security at a Glance** ■ From the Enterprise Summary home page, click the **Compliance** menu, then **Security at a Glance**. All links related to information on the host are licensed. **Policy Violations link and Compliance Score (%)** ■ From the **Targets** menu, select **Hosts**. On the Hosts page, these links are licensed. **Security section** ■ From the **Targets** menu, select **Hosts**. On the Hosts page, all links in this section are licensed. **Deployments link, Metric and Policy Settings link** ■ From the **Targets** menu, select **Hosts**. On the Hosts page, these links under Related Links are licensed. **Configuration page** ■ From the Enterprise Summary home page, click the **Configurations** menu. All features, links, and information on this page are licensed. **Policy Violations link** ■ From the **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. **Configuration Changes, Policy Violations, Security Policy Violations sections** ■ From the **Targets** menu, select **Groups**. On the Groups page, these sections are licensed. **Configuration Searches** ■ From the **Targets** menu, select **Groups**. On the Groups page, click the **Administration** tab. This feature is licensed. **Policy Violations column** ■ From the **Targets** menu, select **Groups**. On the Groups page, click the **Members** tab. All links and information this column are licensed.
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Reports	The following reports are part of the licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite. All reports in each of these sections are features of Configuration Management within the Application Management Suite for Oracle E-Business Suite. To display the Report Definitions page, click the Reports tab on the Enterprise Summary home page. ■ All reports under **Deployment and Configuration** ■ Monitoring reports: **Alerts and Policy Violations** **Disabled Policies** ■ Security reports: **Security Policy Overview**

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Policy Repository Views	The following policy repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:
		Policy Definition Views

		`mgmt$policies`
		`mgmt$policy_parameters`
		`mgmt$policy_violation_ctxt`
		`mgmt$policy_viol_annotations`
		`mgmt$policy_viol_notif_log`

		Policy Association Views

		`mgmt$target_policies`
		`mgmt$target_policy_settings`
		`mgmt$target_policy_eval_sum`
		`mgmt$target_compliance_score`

		Policy Violation Views

		`mgmt$policy_violation_current`
		`mgmt$policy_violation_history`
		`mgmt$policy_violation_context`

Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Patching Repository Views	The following patching repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:
		Linux Patching

		`MGMT$HOSTPATCH_HOSTS`
		`MGMT$HOSTPATCH_GROUPS`
		`MGMT$HOSTPATCH_GRP_COMPL_HIST`
		`MGMT$HOSTPATCH_HOST_COMPL`

		Oracle Home Patching

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

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Configuration Repository Views	The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:

Configuration Views

```
mgmt$db_tablespaces
mgmt$db_datafiles
mgmt$db_controlfiles
```

Client Configuration Views

```
MGMT$CSA_COLLECTIONS
MGMT$CSA_FAILED
MGMT$CSA_HOST_OS_COMPONENTS
MGMT$CSA_HOST_SW
MGMT$CSA_HOST_COOKIES
MGMT$CSA_HOST_CUSTOM
MGMT$CSA_HOST_RULES
MGMT$CSA_HOST_CPUS
MGMT$CSA_HOST_IOCARDS
MGMT$CSA_HOST_NICS
MGMT$CSA_HOST_OS_PROPERTIES
MGMT$CSA_HOST_OS_FILESYSEMS
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
```

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for Oracle E-Business Suite	Configuration Management Licensed Security Repository Views	The following security repository views are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:
		
		`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`

7.5 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 13*c*).

- 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	The Application Management Suite for JD Edwards EnterpriseOne includes the following features: ■ 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.
Application Management Suite for JD Edwards EnterpriseOne	Support for Real User Experience Insight (REUI) Monitoring	The Application Management Suite for JD Edwards EnterpriseOne's Real User Monitoring provides an out-of-the-box real-user monitoring solution for JD Edwards EnterpriseOne. It automatically discovers JD Edwards EnterpriseOne applications and translates network objects into manageable business services and functions. This accelerator supports real-user monitoring of JD Edwards EnterpriseOne application components. Each individual user action is automatically matched to the correlating JD Edwards EnterpriseOne node, site, or view to provide detailed and rich contextual analyses. This monitoring solution captures and reports all functional errors, discovers end-user performance issues, and identifies application issues specific to JD Edwards EnterpriseOne applications. Application managers can set up Key Performance Indicators (KPIs) and report views of interest to their critical packaged applications to gain a complete understanding of their usage, and automatically be alerted in case of KPI events. All of the capabilities for Oracle Real User Experience Insight as documented in Chapter 8, "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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	REUI Features	■ Provides an out-of-the-box real-user monitoring solution for JD Edwards EnterpriseOne applications. ■ Provides out-of-box translation and reporting of error messages in the user's window. ■ Enables application managers to set up KPIs for critical packaged applications. ■ Enables specification and monitoring of real-user business transactions.
Application Management Suite for JD Edwards EnterpriseOne	REUI Licensed Links	The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for JD Edwards EnterpriseOne: **All JD Edwards EnterpriseOne Systems page** ■ From **Targets** menu, select **JD Edwards EnterpriseOne**. This page is licensed. **Add All JD Edwards EnterpriseOne Targets page** ■ 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. **JD Edwards EnterpriseOne System Home, Performance, Administration, Maintenance, Diagnostic, User Monitoring, and Topology pages** ■ 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 **JD Edwards EnterpriseOne Nodes System Home, Charts, Administration, Components and Topology pages** ■ 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. **JD Edwards EnterpriseOne System Home, Charts, Administration, Components, Topology and Report pages** ■ 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)	Features associated with Service Level Management (SLM) for JD Edwards EnterpriseOne are also licensed as part of the Application Management Suite for JD Edwards EnterpriseOne. These SLM features are restricted for use with JD Edwards EnterpriseOne applications and only for the CPUs licensed. They cannot be used for extensions to JD Edwards EnterpriseOne. Extensions include but are not limited to custom forms, JSPs, Java/J2EE code, and integrations using BPEL. SLM offers a comprehensive monitoring solution that helps IT organizations achieve high availability and performance, and optimized service levels for their business services. SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. Using service tests or synthetic transactions executed from remote user locations (beacons), businesses can monitor services from the end user's perspective and its correlation to the underlying IT infrastructure. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met. See Enterprise Manager Cloud Control Service Level Management in Chapter 8 for more information.

Application Management Suite for JD Edwards EnterpriseOne	SLM Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for JD Edwards EnterpriseOne:
		
		`emcli apply_template_tests`
		`emcli create_service`
		`emcli add_target`

Application Management Suite for JD Edwards EnterpriseOne	Support for Configuration Management	■ 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	Configuration Management features of the Application Management Suite for JD Edwards EnterpriseOne enable users to: ■ View and analyze configuration ■ View and analyze deployments/installations ■ Search configuration ■ Compare configuration ■ Manage policies, including policy notifications ■ Provide configuration reports ■ Provide repository tables/views that store/expose configuration data

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Links	The following licensed pages and links of this pack apply to for JD Edwards EnterpriseOne-specific targets within Enterprise Manager. These targets include JD Edwards EnterpriseOne HTML Server, JD Edwards EnterpriseOne Enterprise Server, JD Edwards EnterpriseOne Business Services Server, and JD Edwards EnterpriseOne Server Manager.

All Targets Policy Violations section

- On the Enterprise Summary page, all links in this section are licensed.

Deployment Summary section

- On the Enterprise Summary page, all Hardware and Operating System related information in this section are licensed.

- From the Enterprise Summary page, click the **Deployments** menu. On the Deployments page, all Hardware and Operating System related information in this section are licensed.

- From the **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.

Security Policy Violations section

- On the Enterprise Summary page, all links in this section are licensed.

Configuration section

- From the Enterprise Summary page, click the **Deployments** menu. On the Deployments page, all links in this section are licensed.

Client Configuration section

- From the Enterprise Summary page, click the **Deployments** menu. On the Deployments page, all links in this section are licensed.

Violations sub-tab page

- From the Enterprise Summary page, click the **Compliance** menu, then **Policies**. On the Policy Violations page, all links, sub-navigation tabs, and features available on or linked to from the Cloud Control Policies Violations page for information related to hosts are licensed.

Security at a Glance page

- From the Enterprise Summary page, click the **Compliance** menu, then **Security at a Glance**. All links related to information on the host are licensed.

Policy Violations link and Compliance Score (%)

- From the **Targets** menu, select **Hosts**. On the Hosts page, these items are licensed.

Configuration, Policy Violations, Security sections

- From the **Targets** menu, select **Hosts**. On the Hosts page, the links in these sections are licensed.

Deployments link, Metric and Policy Settings link

- From the **Targets** menu, select **Hosts**. On the Hosts page under Related Links, these links are licensed.

Configuration page

- From the **Targets** menu, select **Hosts**. On the Hosts page, click **Configuration**. All features, links, and information on this page are licensed.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Links (continued)	**Policy Violation link** ■ 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. **Configuration Changes, Policy Violations, Security Policy Violations sections** ■ From the **Targets** menu, select **Groups**. On the Groups home page, all links in these sections are licensed. **Configuration Searches** ■ From the **Targets** menu, select **Groups**. On the Groups home page, click the **Administration** tab. For host and operating systems, this feature is licensed. **Policy Violations column** ■ 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	The following reports are part of the licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne. All reports in each of these sections are features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne. To display the Report Definitions page, click the **Reports** tab on the Cloud Control Home page.
		
		■ All reports under **Deployment and Configuration**
		
		■ Monitoring reports:
		    Alerts and Policy Violations
		    Disabled Policies
		
		■ Security reports:
		    Security Policy Overview

Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Policy Repository Views	The following policy repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne:
		
		Policy Definition Views
		
		`mgmt$policies`
		`mgmt$policy_parameters`
		`mgmt$policy_violation_ctxt`
		`mgmt$policy_viol_annotations`
		`mgmt$policy_viol_notif_log`
		
		Policy Association Views
		
		`mgmt$target_policies`
		`mgmt$target_policy_settings`
		`mgmt$target_policy_eval_sum`
		`mgmt$target_compliance_score`
		
		Policy Violation Views
		
		`mgmt$policy_violation_current`
		`mgmt$policy_violation_history`
		`mgmt$policy_violation_context`

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Patching Repository Views	The following patching repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne: **Linux Patching** MGMT$HOSTPATCH_HOSTS MGMT$HOSTPATCH_GROUPS MGMT$HOSTPATCH_GRP_COMPL_HIST MGMT$HOSTPATCH_HOST_COMPL **Oracle Home Patching** MGMT$CPF_ADVISORY_INFO MGMT$CPF_HOMES_INFO MGMT$CPF_PATCH_INFO MGMT$EM_HOMES_PLATFORM MGMT$HOMES_AFFECTED MGMT$PATCH_ADVISORIES MGMT$APPL_PATCH_AND_PATCHSET MGMT$APPLIED_PATCHES MGMT$APPLIED_PATCHSETS
Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Configuration Repository Views	The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne: **Configuration Views** mgmt$db_tablespaces mgmt$db_datafiles mgmt$db_controlfiles **Client Configuration Views** MGMT$CSA_COLLECTIONS MGMT$CSA_FAILED MGMT$CSA_HOST_OS_COMPONENTS MGMT$CSA_HOST_SW MGMT$CSA_HOST_COOKIES MGMT$CSA_HOST_CUSTOM MGMT$CSA_HOST_RULES MGMT$CSA_HOST_CPUS MGMT$CSA_HOST_IOCARDS MGMT$CSA_HOST_NICS MGMT$CSA_HOST_OS_PROPERTIES MGMT$CSA_HOST_OS_FILESYSEMS 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

Management Pack	Type of Licensing Information	Licensing Information

Application Management Suite for JD Edwards EnterpriseOne	Configuration Management Licensed Security Repository Views	The following security repository views are licensed features of Configuration Management within the Application Management Suite for JD Edwards EnterpriseOne:
		
		 `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`

7.6 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	The Application Management Suite for PeopleSoft Enterprise includes the following features:
		■ 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	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.
		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.
		All of the capabilities for Oracle Real User Experience Insight as documented in Chapter 8, "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.
Application Management Suite for PeopleSoft Enterprise	REUI Features	■ 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	The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for PeopleSoft Enterprise:

All PeopleSoft Targets page

- From the **Targets** menu, select **PeopleSoft**. The All PeopleSoft Targets page is a licensed feature of the Application Management Suite for PeopleSoft.

PeopleSoft target home page

- 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

Monitoring

- 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:

  Charts

  All Metrics

  Metric and Collection Settings

  Metric Collection Errors

  Status History

  Incident Manager

  Alert History

  Blackouts

Create/End Blackout

- 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

Job Activity

- 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.

Members

- 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:

  Show All

  Topology

  Dashboard

  Operations

  History

Target Information

- 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.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Licensed Links (continued)	**Configuration** ■ 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: Last Collected Topology Search Compare Comparison Job Activity History Save Saved **Compliance** ■ 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. Results Standard Associations Real-time Observations **Target Setup** ■ 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. Monitoring Configuration Administrator Access Remove Target Add to Group Properties
Application Management Suite for PeopleSoft Enterprise	Support for Service Level Management (SLM)	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. SLM offers a comprehensive monitoring solution that helps IT organizations achieve high availability and performance, and optimized service levels for their business services. SLM actively monitors and reports on the availability and performance of services, including end-user business functions, applications, and infrastructure components. Using service tests or synthetic transactions executed from remote user locations (beacons), businesses can monitor services from the end user's perspective and its correlation to the underlying IT infrastructure. In addition, SLM assesses the business impact of any service problem or failure and indicates whether service-level goals have been met. See Enterprise Manager Cloud Control Service Level Management in Chapter 8 for more information.

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	SLM Licensed CLI Verbs	The following Enterprise Manager CLI verbs are licensed as part of Service Level Management within the Application Management Suite for PeopleSoft: ■ `emcli apply_template_tests` ■ `emcli create_service` ■ `emcli add_target`
Application Management Suite for PeopleSoft Enterprise	Support for Configuration Management	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: ■ 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
Application Management Suite for PeopleSoft Enterprise	Configuration Management Features	Configuration Management features of the Application Management Suite for PeopleSoft enable users to: ■ View and analyze configuration ■ View and analyze deployments/installations ■ Search configuration ■ Compare configuration ■ Manage policies, including policy notifications ■ Provide configuration reports ■ Provide repository tables/views that store/expose configuration data
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Reports	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**. ■ **License Pack Usage** under **Feature and License Pack Usage** ■ Monitoring reports: **Aggregate Targets** **Alerts** **Availability History** **Availability Metrics Report**

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Policy Repository Views	The following policy repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
		Policy Definition Views

		`mgmt$policies`
		`mgmt$policy_parameters`
		`mgmt$policy_violation_ctxt`
		`mgmt$policy_viol_annotations`
		`mgmt$policy_viol_notif_log`

		Policy Association Views

		`mgmt$target_policies`
		`mgmt$target_policy_settings`
		`mgmt$target_policy_eval_sum`
		`mgmt$target_compliance_score`

		Policy Violation Views

		`mgmt$policy_violation_current`
		`mgmt$policy_violation_history`
		`mgmt$policy_violation_context`

Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Patching Repository Views	The following patching repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
		Linux Patching

		`MGMT$HOSTPATCH_HOSTS`
		`MGMT$HOSTPATCH_GROUPS`
		`MGMT$HOSTPATCH_GRP_COMPL_HIST`
		`MGMT$HOSTPATCH_HOST_COMPL`

		Oracle Home Patching

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

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Configuration Repository Views	The following configuration repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:

Configuration Views

```
mgmt$db_tablespaces
mgmt$db_datafiles
mgmt$db_controlfiles
```

Client Configuration Views

```
MGMT$CSA_COLLECTIONS
MGMT$CSA_FAILED
MGMT$CSA_HOST_OS_COMPONENTS
MGMT$CSA_HOST_SW
MGMT$CSA_HOST_COOKIES
MGMT$CSA_HOST_CUSTOM
MGMT$CSA_HOST_RULES
MGMT$CSA_HOST_CPUS
MGMT$CSA_HOST_IOCARDS
MGMT$CSA_HOST_NICS
MGMT$CSA_HOST_OS_PROPERTIES
MGMT$CSA_HOST_OS_FILESYSEMS
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
```

Management Pack	Type of Licensing Information	Licensing Information
Application Management Suite for PeopleSoft Enterprise	Configuration Management Licensed Security Repository Views	The following security repository views are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:

		`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`

Application Management Suite for PeopleSoft Enterprise	Licensed Components	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. ■ 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

8.1 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	Oracle Real User Experience Insight (RUEI) uniquely captures a complete picture of the end-user experience and behavior, including:
		- Actual user-experience response time for key system transactions
		- Synthetic transaction-based monitoring
		- Complete quality of experience, including system and application errors and user-created errors
		- Comprehensive perspective of application utilization — which transactions are used by which end-users, which are the most problematic and why, and so forth
		RUEI's passive monitoring capability is built using state-of-the-art Network Protocol Analysis technology, which does not require any modification, changes, or instrumentation of the application. Its passive monitoring approach allows enterprises to deploy in production, without requiring costly test/QA environment validations.
		Additionally, RUEI includes the full capabilities of Enterprise Manager Cloud Control Service Level Management.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real User Experience Insight	Features	Oracle Real User Experience Insight includes the following features:
		■ 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	If this applies, the Suite Type E-Business Suite may be considered part of Oracle Real User Experience Insight and does not require a license for Oracle Enterprise Manager Application Management Suite for Oracle E-Business Suite.
		The following information describes the links in RUEI that have been included as part of the license of one of Oracle Enterprise Management Application Management Suites:
		■ From main console of Real User Experience Insight, go to 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.
		The following Suite Types are part of the license of the mentioned Oracle Enterprise Management Application Management Suites:
		■ **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
		The mentioned links can only be used when the mentioned Oracle Enterprise Management Application Management Suite pack has been licensed.
		■ **Note:** Suite Type E-Business Suite can be used for monitoring standalone Oracle Forms applications that are not considered part of Oracle E-Business Suite. 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.
		Any and all methods of accessing pack functionality — whether through Oracle Enterprise Manager Cloud Control 13*c*, Desktop Widgets, command-line APIs, or direct access to the underlying data — require the Pack license.
Oracle Real User Experience Insight	Standalone Accelerator Licensing	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.

Management Pack	Type of Licensing Information	Licensing Information
Oracle Real User Experience Insight	Business Application Licensed Links	The following links are licensable for Business Application targets:

Real User Experience (RUEI) Data

- 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.

RUEI Session Diagnostics

- 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.

RUEI Metrics

- 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.

Business Transaction Drill-Down Page

- 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.

Business Application home page

- 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	■ A restricted use license of Business Intelligence Publisher is included for users to run reports on the Real User Experience Insight (RUEI) repository and to modify provided layouts. ■ Additional database options or additional servers for disaster recovery require separate licensing. Customers receive one single-instance database with the RUEI repository. In a scaled deployment of Oracle Real User Experience Insight, where multiple RUEI processing engines are deployed, customers receive a single-instance database per engine. To protect the repository with Data Guard, customers need to purchase a license for the standby site. To protect the repository with Oracle Real Application Clusters, customers must license the second node for the database, and both nodes require an Oracle Real Application Clusters license. ■ The use of the RUEI repository for the Enriched Data Export Facility feature is included in the license. If the Enriched Data Exchange feature is configured to store data to separate database instance, not part of the RUEI repository, these nodes require an Oracle Database license.
Oracle Real User Experience Insight		
Oracle Real User Experience Insight		

8.2 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	Enterprise Manager Cloud Control Service Level Management was introduced as a standalone Service Level Management Pack with Enterprise Manager version 10g release 2. Since Enterprise Manager 11g, Service Level Management is licensed as part of either: ■ Oracle Real User Experience Insight ■ WebLogic Server Management pack Enterprise Edition ■ SOA Management Pack Enterprise Edition ■ Management Pack for WebCenter ■ Management Pack for Non-Oracle Middleware ■ Business Intelligence Management Pack ■ Management Pack Plus for Identity Management A subset of functionality in the Service Level Management Pack was previously included as part of the Diagnostics Pack for Application Server license. Customers who had licensed the Diagnostics Pack for Application Server 10g Release 1 are entitled to continue to use the following specific functionality without licensing any of the packs above: ■ Web Application service test monitoring with HTTP and HTTPS protocols (test type itself has been deprecated, existing tests will continue to work). ■ Host monitoring with `ping` protocol.
Enterprise Manager Cloud Control Service Level Management (SLM)	Features	Enterprise Manager Cloud Control Service Level Management (SLM) includes the following features: ■ 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	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: For configuration pages, from the **Targets** menu, select **Services**: ■ On the Services page, as part of the Generic Service creation **Service Test** step, defining a service's availability based on the execution of a service test is a licensed feature of Oracle Real User Experience Insight (RUEI). ■ On the Services page, as part of the Generic Service creation, the **Beacons page** is a licensed feature of RUEI. ■ On the Services page, click any **Name** link (except for Aggregate Service) in the table. On the Service page that appears, select the **Monitoring Configuration** sub-tab. The **Service Tests and Beacons** link on the Monitoring Configuration page is a licensed feature of RUEI. ■ On the Services page, click either the **Name** link of a Generic Service or Forms Application in the table. On the Service page that appears, select the **Monitoring Configuration** sub-tab. On the Monitoring Configuration page, the **Enable Forms Transaction Monitoring** link is a licensed feature of RUEI. ■ On the Monitoring Configuration page, select **Availability Definition**. Select **Service Test** from the drop-down list on the **Availability Definition** page. Defining a service's availability based on the execution of a service test is a licensed feature of RUEI. For monitoring pages, from the Enterprise Manager home page, select the **Targets** menu, then **Services**: ■ On the Services page, select a service **Name** link in the table. On the Service page that appears, the **Test Performance** sub-tab and **Black Out** button are licensed features of RUEI. ■ On the Services page, select a service **Name** link in the table. On the Service page that appears, select the **Test Performance** sub-tab. All links and controls on this page are licensed as part of RUEI. The following **Related Links** are also part of RUEI: ■ Alert History ■ Blackouts ■ Metric Baselines ■ Past Changes ■ Pending Changes (where applicable)

Management Pack	Type of Licensing Information	Licensing information
Enterprise Manager Cloud Control Service Level Management (SLM)	Licensed Forms Applications Links	The following information describes the Enterprise Manager links that require licensing of SLM. This information does not include feature links that may contain information derived from the creation of tests and beacons, but are considered part of SLM. The list that follows assumes that you begin from the main Cloud Control home page:
		For configuration pages, from the **Targets** menu, select **Services**:
		■ On the Services page, select **Forms Application** from the drop-down list and click **Go**. Select **Service Test** from the drop down-menu on the **Availability** page of the Create Forms Application wizard. Defining a form application's availability based on the execution of a service test is a licensed feature of Oracle Real User Experience Insight (RUEI).
		■ On the Services page, select **Forms Application** from the drop-down list and click **Go**. The **Beacons page** of the Create Web Application wizard is a licensed feature of RUEI.
		■ On the Services page, click any **Forms Application Name** link, then select the **Monitoring Configuration** sub-tab. The **Service Tests and Beacons** link in the **Generic Tasks** section of the Monitoring Configuration page is a licensed feature of RUEI.
		■ On the Monitoring Configuration page, select **Availability Definition** from the **Generic Tasks** section. The **Service Test** choice from the drop-down list on the **Availability Definition** page is a licensed feature of RUEI.
		For monitoring pages, from the **Targets** menu, select **Services**:
		■ On the Services page, click a Forms Application **Name** link in the table to go to the Forms Application Home page. The **Test Performance** link and **Black Out** button are licensed features of RUEI.
		The following **Related Links** are also part of RUEI:
		■ Alert History
		■ Blackouts
		■ Metric Baselines
		■ Past Changes
		■ Pending Changes (where applicable)
Enterprise Manager Cloud Control Service Level Management (SLM)	Licensed CLI Verbs	The following Enterprise Manager command line interface (CLI) verbs are licensed as part of Enterprise Manager Cloud Control Service Level Management:
| | | ```
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
``` |
| 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 13*c* includes several features free of charge with the purchase of any Oracle software license or Support contract.

9.1 Base Framework Feature Summary

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

Base Framework Feature	Description
Agent Management	Start, stop, restart, and modify agent configuration from Oracle Enterprise Manager Cloud Control 13*c*. 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 *(excludes notifications)*	Configure thresholds for metrics and view alerts (server generated or generated based on threshold violation). This excludes notifications which requires one or more licensed Packs.
Auto Discovery	Discover host on a network and promote to being managed by Enterprise Manager.
Enterprise Manager Self Management and Monitoring	View Management Services and Repository and Management Service target pages and reports. View Enterprise Manager topology.
Enterprise Manager Support Workbench	Access Checker Central diagnostics checks. Run EMDiag Kit. Package and send Problem information to Oracle Support.
Groups and Systems Management	Enable administrators to manage multiple targets as one.
Information Publisher and Reporting	Create and manage reports in Enterprise Manager's embedded reporting solution or in BI Publisher. Specific reports in Enterprise Manager may be licensed under Packs.
Job System and Corrective Actions	Automate routine (often repetitive) tasks. Enables automated response to metric alerts.
Monitoring and Incident Management	Provide administrators with ability to monitor targets individually or in groups or systems. View and manage incidents generate from events associated with targets.

Base Framework Feature	Description
My Oracle Support integration	Provide seamless access to My Oracle Support within the Enterprise Manager user interface. Manage Service Requests and review Knowledge Base articles, all without leaving the Enterprise Manager user interface.
Self-update *(functionality in plug-ins may be licensed under Packs)*	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.

9.2 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 13*c*:

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

Base Database Management Feature	Description
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.

9.3 Base Middleware Management Feature Summary

The following items are included as part of Enterprise Manager Cloud Control 13*c* 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, Oracle GlassFish Server Administration Console, and Oracle WebLogic Server Administration Console.
Fusion Middleware targets home pages *(Exception is JVM and JVM Pool target home pages; these two home pages are part of a management pack and require a license.)*	View target home pages including, but not limited to the following target types: - 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.

9.4 Base Engineered Systems Management Feature Summary

Engineered Systems includes Exadata and Exalogic systems:

- Exadata Management Features
- Exalogic Management Features

9.4.1 Exadata Management Features

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

Exadata Management Feature	Description
Schematic	■ 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	■ DB Machine Software Topology ■ System Members ■ InfiniBand Switch
Exadata Grid	■ Overview – Target status, Cell health, release version and IORM status ■ Capacity – Disk capacity allocated to ASM, ASM Diskgroup summary and cell incidents **Note:** these regions are licensed by the Oracle Diagnostics Pack: ■ Workload Distribution by Databases ■ Cell level Performance charts – I/O, CPU, Network and Response Time
IB Network page	Overview – status, switches, firmware version, Schematic explaining the port status, Node status, List of alerts, incidents. **Note:** these regions are licensed by the Oracle Diagnostics Pack: ■ Throughput details
ILOM, KVM, Cisco Switch, PDU	Summary, Job Activity, list of alerts

9.4.2 Exalogic Management Features

The following items are included as part of Enterprise Manager Cloud Control 13*c* Exalogic management:

Exalogic Management Feature	Description
Basic monitoring	■ 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

9.5 Server, Storage, and Virtualization Management Feature Summary

The following items are included as part of Enterprise Manager Cloud Control 13*c* server and virtualization management:

Server, Storage, and Virtualization Features	Description
Administration	Provide remote administration capabilities for hosts.
Chargeback	Metering and Chargeback for guest virtual machines (VMs) and hosts. **Note:** If you have not purchased a license for Oracle Cloud Management Pack for Oracle Database or Oracle Cloud Management Pack for Oracle Fusion Middleware, you should grant access to the Oracle Cloud Management Pack for Oracle Database to the Enterprise Manager Repository database to obtain access to *Chargeback for VM Guest and Host* targets.
Configuration management	Provide hardware and software configuration data collection.

Server, Storage, and Virtualization Features	Description
Consolidation Planner	Determine optimal server consolidation scenarios by leveraging data collected by Cloud Control against business and technical constraints.
Controlling/Service Domain	Configure Oracle VM Server for SPARC controlling or service domain attributes and monitor resource consumption. Manipulate vdisk allocation to VMs post-creation.
Dynamic Resource Allocation	Provide for real-time changing of allocated resources using Oracle Solaris Container and Oracle VM Server for SPARC technology.
Dynamic Topology	Maintain the child-to-parent relationship between the service processor, hypervisor, global zone, control domain, and virtual machine.
Guest VM/Linux OS Patching	Provide automated host patching and integration with an Unbreakable Linux network (ULN).
Historical Trending	View historical workload trends for Oracle Solaris Zones against one another on a central graph.
Host monitoring and management	Monitor of Cloud Control component services, such as jobs and notifications.
Hypervisor/OS Provisioning	Provide default templates for the creation of Oracle VM Server for SPARC controlling domain configuration. Ensure compatibility between embedded hypervisor components in the firmware and the bare metal OS layers above.
Image Library Management	Maintain ISO and Oracle Solaris Flash Archive (FLAR) images for both physical and virtual provisioning.
Infrastructure Management	Provide ready access to Home, Self-Service, Request Dashboard pages 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.
Network Configuration	Provide network topology in VM creation wizards that result in more redundant configurations based on IP multi-pathing and VLAN tagging.
Notifications	Notification on events and incidents for infrastructure targets (hosts, storage, VMs).
Oracle Solaris Container Management	Provide full life-cycle management, including discovery, create, delete, configure, boot, shutdown, and monitor.
Oracle Solaris Global Zone	Configure global zone resource allocation and monitor resource consumption.
Oracle Solaris Zones and Patch Management	Facilitate "update on attach" actions as zones are migrated around to different global zones.
Oracle VM and Guest VM provisioning	Deploy Oracle VM 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 manager)	Manage environment requests to allow for more storage.
Oracle VM Server for SPARC	Provide full life-cycle management, including discovery, create, delete, configure, boot, shutdown, and monitor.
Performance monitoring	Provide real-time and historical performance monitoring.
Provisioning of Oracle VM templates	Provisioning of Oracle VM templates.
Resource Virtual Pools	Construct T-series server group and manage the network configuration and shared storage, auto-balance the workload, and view historical aggregations of performance metrics.
Storage Orchestration	Automatically facilitate the use of Oracle ZFS Storage Appliances in the Oracle Solaris Container and Oracle VM Server for SPARC environments.
Storage Plug-in	Manage storage assets more effectively.
Technology Abstraction Layer	Use M-series dynamic hardware domains, T-series Oracle VM Server for SPARC, and Oracle Solaris Zones, and create complex operational plans.

9.5.1 Enterprise Manager Ops Center Features

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

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

Oracle Enterprise Manager Ops Center includes the following features:

Enterprise Manager Ops Center Feature	Description
Alarm Management	Provide alert correlation and aggregation. Open a Service Request with My Oracle Support.
Asset Management	Manage distributed assets from the same console. Provide new hardware asset reporting down to the field replaceable unit (FRU) part number.
Audit Reporting	Track software and configuration changes made with Ops Center through easily read reports.
Bare Metal OS Provisioning	Automate Kickstart, Jumpstart, YAST, and DHCP configuration for the remote light-out provisioning of servers. Create profiles to capture finish scripts and customization.
Cloud Control Integration	Provide integration between Enterprise Manager Cloud Control and Ops Center. Discover targets and view alarm information. View hardware, OS, and virtualization information.
Complex Plan Management	Create in-depth workflow plans by nesting server provisioning tasks into a comprehensive string of events.
Compliance Automation	Provide reporting capabilities to schedule tests against target nodes, point-in-time comparisons, operational policies, or self-made software profiles.
Disconnected Mode	Provide choice to remain connected to Oracle to receive knowledge transfer automation and protection, or to run in disconnected mode from Oracle.
Energy Awareness	View historical and real-time energy consumption of individual servers or groups of servers in both Watt (W) and KwH in terms of cost. View CPU utilization, temperature, and fan RPM trending.
Enhanced OS Patching	Minimize downtime originating from software life cycles activities.
Firmware Provisioning	Automatically download firmware for servers and storage appliances, including Service Processor, RAID HBA cards, and drive firmware.
Hardware Management	Provide hardware monitoring across the Oracle T-series, M-series, X-series, Network Appliances, and Storage Appliances. Provide integration with Oracle Solaris FMA.
Historical Monitoring	Provide a view of past trends in monitored performance attributes.
M-series Dynamic Domains	Create provisioning plans that control the configuration of dynamic hardware domains.
My Oracle Support Integration	Provide integration to My Oracle Support. Automatically open service requests and validate assets. View service request status updates.
Network Fabric Monitoring	Discover, map, and view Oracle 10GBe and Infiniband Switches, NEMs, and HBA devices from the server point of view.
Operational Plans	Set alarm thresholds on any attribute in the product and house them in a monitoring profile that can be provisioned across multiple boxes. Allow for ad-hoc actions and scripts to be run and their output captured.

Enterprise Manager Ops Center Feature	Description
Oracle Solaris Cluster Support	Discover an Oracle Solaris Cluster environment provide full coverage of Oracle Solaris Cluster software in the Ops Center knowledge repository.
Oracle Sun ZFS Storage Appliances	Discover Oracle Sun ZFS Storage Appliances properly in the topology and provide a view of configuration and service information of the device.
OS Performance Monitoring	Provide Oracle Solaris and Linux OS performance monitoring, both real-time status of attributes and historical charting.
RAID Device Configuration	Provide pre-OS installation and RAID device configuration.
Role Based Access Control	Provide roles that control a user's access, which can be granted universally or for specific groups of assets.
Windows Support	Provide comprehensive Windows patching integration with Microsoft System Center Configuration Manager.

A

Third-Party Licenses

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

The following sections are provided:

- Commercial Software
- Open Source or Other Separately Licensed Software
- Apache Software Foundation License, Version 1.1
- Apache Software Foundation Licenses, Version 2.0
- Eclipse Public License 1.0
- Info-ZIP Licenses
- The Jython License
- The MIT License
- Mozilla Foundation
- OpenSSL License
- PCRE License
- Additional Licensing Information

A.1 Commercial Software

Commercial software products or components distributed in Enterprise Manager Cloud Control 13*c* are identified in the following table along with the applicable licensing information:

Provider	Components	Version	Licensing information
Adobe	Flash	10	Copyright © 2012 Adobe Systems Incorporated. All rights reserved.
Cedric Beust	TestNG	6.8.1	This license is part of the Apache Software Foundation Licenses, Version 2.0.
Hewlett Packard	JDK/JRE	7.x	Copyright © 2015 Hewlett-Packard Development Company, L.P.
Symark	PowerBroker	4.0.5	Copyright © 2012 BeyondTrust Software, Inc. All rights reserved.
			Use of this software and/or document, as and when applicable, is also subject to the terms and conditions of the license between the licensee and BeyondTrust Software, Inc. ("BeyondTrust") or BeyondTrust's authorized remarketer, if and when applicable.

A.2 Open Source or Other Separately Licensed Software

Required notices for open source software products or components distributed in Enterprise Manager Cloud Control 13*c* 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
Adobe	Flex SDK	3.3	Copyright © 1987-1998 Adobe Systems Incorporated. All Rights Reserved.
Apache	Apache Jakarta Commons HttpClient	3.1	Copyright 1999-2007 The Apache Software Foundation. This license is part of the Apache Software Foundation Licenses, Version 2.0.

Apache	Axis - Java	1.2.1, 2.1.1, 1.4, 1.4.2	This product includes software developed by The Apache Software Foundation (http://www.apache.org/).
			Portions Copyright 2006 International Business Machines Corp.
			Portions Copyright 2005-2007 WSO2, Inc.
			This product also includes schemas and specification developed by:
			■ The W3C consortium (http://www.w3c.org)
			    This product also includes WS-* schemas developed by International Business Machines Corporation, Microsoft Corporation, BEA Systems, TIBCO Software, SAP AG, Sonic Software, and VeriSign.
			    This product also includes a WSDL developed by salesforce.com
			■ Copyright 1999-2006 salesforce.com, inc.
			    Portions of the included xmlbeans library were originally based on the following:
			    - software copyright (c) 2000-2003, BEA Systems.
			This license is part of the Apache Software Foundation Licenses, Version 2.0.

Apache	Commons BeanUtils	1.6, 1.7, 1.8	Copyright © 2000-2010 The Apache Software Foundation This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	Commons Codec	1.10 (update to 1.8 LT 14402), 1.2, 1.3	Copyright © 2002-2011 The Apache Software Foundation. All Rights Reserved. This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	Commons Collections	3.1	Copyright © 2001-2008 The Apache Software Foundation. All Rights Reserved. This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	Commons CSV	0.1	Copyright © 2001-2015 The Apache Software Foundation. All Rights Reserved. This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	Commons Digester	1.5, 1.7	Copyright © 2001-2011 The Apache Software Foundation. All Rights Reserved. This product includes software developed by The Apache Software Foundation (http://www.apache.org/). This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	Commons HttpClient	4.2.5	Copyright © 2006-2014 Mvn Repository. All rights reserved. This license is part of the Apache Software Foundation Licenses, Version 2.0.

Provider	Components	Version	Licensing information
Apache	Commons JXPath	1.2	Copyright © 2001-2008 The Apache Software Foundation. All Rights Reserved.
			This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	Commons Math	3.2	Copyright © 2001-2008 The Apache Software Foundation. All Rights Reserved.
			This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	Log4J	1.2.8, 1.2.13, 1.2.15, 1.3	Copyright © 1999-2010 Apache Software Foundation. All Rights Reserved.
			This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	Maven	3.0.4	Copyright © 2012 The Apache Software Foundation. All Rights Reserved.
			This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	Trinidad		Copyright © 2012 The Apache Software Foundation. All Rights Reserved.
			This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	XML Beans Developer Kit (xbean.jar)	2.3.0, 2.2.0, and 2.1.0	Copyright © 2004 The Apache Software Foundation. All Rights Reserved.
			This license is part of the Apache Software Foundation Licenses, Version 2.0.
Apache	Xerces	2.8.1, 2.0.1	Copyright © 1999-2010 The Apache Software Foundation. All Rights Reserved.
			All source and documentation of the Xerces project is copyrighted by the Apache Software Foundation, and made available under the Apache Software Foundation Licenses, Version 2.0.

Provider	Components	Version	Licensing information
CACE Technologies	wincap	4.1.2	Copyright (c) 1999 - 2005 NetGroup, Politecnico di Torino (Italy). Copyright (c) 2005 - 2010 CACE Technologies, Davis (California). All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met: 1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer. 2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution. 3. Neither the name of the Politecnico di Torino, CACE Technologies nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission. THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This product includes software developed by the University of California, Lawrence Berkeley Laboratory and its contributors. This product includes software developed by the Kungliga Tekniska Högskolan and its contributors. This product includes software developed by Yen Yen Lim and North Dakota State University.
CPAN	Net-DNS	0.48	Net-DNS (http://www.net-dns.org/). The source code for the modified version of Base.pm is freely available at: http://oss.oracle.com/projects/codefragments/dist/files/Base.pm.zip under the Perl license. This module is licensed to Oracle under the Perl Artistic License: http://www.perl.com/pub/a/language/misc/Artistic.html

Provider	Components	Version	Licensing information
CPAN	Net-IMAP-Simple (IMAP Perl Module)	0.93	Copyright © 1999 Joao Fonseca. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself.
			Note: Simple.pm in this directory is the original Perl module file. The original Perl module file has been modified slightly in this file. The changes between the original Perl module file and this file are as follows:

			1. Line 1 of method "new"
			
			The original file has:
			
			`my ( $class, $server, %options ) = @_;`
			
			The modified file (this file) has:
			
			`my ( $class, $server, $port,$timeout, %options ) = @_;`

			2. Line 10 of method "new"
			
			The original file has:
			
			`$self->{sock} = new IO::Socket::INET( "$server:143" )`
			
			The modified file (this file) has:
			
			`$self->{sock} = new IO::Socket::INET( PeerAddr => $server, PeerPort => $port, Timeout => $timeout )`

			Summary of the changes:
			The original Perl module file hard-codes the port in the method "new". The changed file (this file) makes the port a parameter to the method "new".
			This module is licensed to Oracle under the Perl Artistic License: http://www.perl.com/pub/a/language/misc/Artistic.html
CPAN	Perl Interpreter	5.8.8, 5.10.0	This program contains third-party code from the Comprehensive Perl Archive Network ("CPAN"). Under the terms of the CPAN license, Oracle is required to provide the following notices. Note, however, that the Oracle program license that accompanied this product determines your right to use the Oracle program, including the CPAN software, and the terms contained in the following notices do not change those rights. You may obtain copies of the original source code for the CPAN modules at the following site:
			http://www.cpan.org/
			This module is licensed to Oracle under the Perl Artistic License: http://www.perl.com/pub/a/language/misc/Artistic.html
CPAN	perl module: IO-tty	1.11	Originally by Graham Barr, based on the Ptty module by Nick Ing-Simmons. Now maintained and heavily rewritten by Roland Giersig.
			This module is licensed to Oracle under the Perl Artistic License: http://www.perl.com/pub/a/language/misc/Artistic.html
CPAN	perl module: XML::Simple	2.20	Copyright 1999-2004 Grant McLean
			This module is licensed to Oracle under the Perl Artistic License: http://www.perl.com/pub/a/language/misc/Artistic.html
Caucho	Hessian Binary Web Service Protocol	3.2.1	Copyright (c) 2001-2004 Caucho Technology, Inc. All rights reserved.
			This product includes software developed by Caucho Technology (http://www.caucho.com/).
			This license is part of the Apache Software Foundation License, Version 1.1.

Provider	Components	Version	Licensing information
Dug Song	libdnet	1.12 ipv6	Copyright (c) 2000-2006 Dug Song
			All rights reserved, all wrongs reversed.
			Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:
			1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
			2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
			3. The names of the authors and copyright holders may not be used to endorse or promote products derived from this software without specific prior written permission.
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Eclipse Foundation	Jetty	7.0.1	Copyright © 2011 The Eclipse Foundation. All Rights Reserved.
			This license is part of the Apache Software Foundation Licenses, Version 2.0.
Google	flexlib	2.5	This license is part of the The MIT License.
Google	FlexLib - treegrid	2.1	Copyright (c) 2007 FlexLib Contributors.
			See: http://code.google.com/p/flexlib/wiki/ProjectContributors
			Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:
			The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.
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