

Oracle® Enterprise Manager

Licensing Information

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Preface

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

Oracle Enterprise Manager 11g is available in multiple editions, each suitable for different development and deployment scenarios. Oracle also offers several Enterprise Manager options that enhance the capabilities of Oracle Enterprise Manager for specific application requirements. Oracle Enterprise Manager Licensing Information provides information on these optional products.

This Preface contains the following topics:

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

Intended Audience

This book is intended for all purchasers of Oracle Enterprise Manager 11.1.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at <http://www.oracle.com/accessibility/>.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

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TTY Access to Oracle Support Services

To reach Oracle Support Services, use a telecommunications relay service (TRS) to call Oracle Support at 1.800.223.1711.

Related Documents

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

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

You can access these documents from the Oracle Technology Network:

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

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

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

Conventions

The following text conventions are used in this document:

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

Introduction

Oracle Enterprise Manager 11g Grid Control is Oracle's single, integrated solution for managing all aspects of the Oracle Grid and the applications running on it. Grid Control couples a potent, top-down monitoring approach to delivering the highest quality of service for applications with a cost-effective automated configuration management, provisioning, and administrative solution. This powerful combination provides unequalled management for any size Oracle data center.

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

- [Enterprise Database Management](#)
- [Oracle Middleware Enterprise Management](#)
- [Business Intelligence Management](#)
- [Identity Management Enterprise Management](#)
- [Other Infrastructure Management](#)
- [User Experience Management](#)
- [Application Management](#)
- [Application Testing Suite](#)
- [Linux Management](#)
- [Third-Party Licenses](#)

License Authorization Requirement

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

Showing Management Pack Information

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

1. Access any **Enterprise Manager Grid Control** page.
2. Scroll to the bottom of the page until you see a + icon beside the About Oracle Enterprise Manager link on the left.
3. Click the + icon. The + icon changes to a - icon, and the pack abbreviations now appear beside the licensed links.

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

Enabling and Disabling the Oracle Enterprise Manager Packs

You can enable or disable the functionality for most packs in the Oracle Enterprise Manager 11g Grid Control Console using the following procedure.

1. Ensure that you are using Oracle Enterprise Manager 11g Grid Control.
To check your Grid Control version, log in to the Grid Control Console and click **About Oracle Enterprise Manager** at the bottom of any page.
2. Log in to the Grid Control Console as a super administrator.
3. Click **Setup** in the upper right corner of the page.
4. Click **Management Pack Access** on the left navigation panel.
The Management Pack Access page allows you to enable or disable access for each Management Pack on each listed target.
5. 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.
6. 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 into the Grid Control Console cannot access Management Pack functionality that you have disabled.

Additional Database and Fusion Middleware Information

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

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

- *Oracle Database Licensing Information*
- *Oracle Fusion Middleware Licensing Information*
- *Installing and Updating WebLogic Platform License Files*

Enterprise Manager Restricted-use License

- Enterprise Manager includes a restricted-use license of the Oracle Database for use as the Oracle Management Repository only.

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

- Use of Oracle WebLogic Server with Oracle Enterprise Manager is restricted to the servlet functionality without clustering for the Oracle Management Server (OMS).

Enterprise Database Management

Enterprise Manager offers the following management packs for Oracle Database:

- [Diagnostics Pack for Oracle Database](#)
- [Tuning Pack for Oracle Database](#)
- [Change Management Pack for Oracle Database](#)
- [Configuration Management Pack for Oracle Database](#)
- [Provisioning and Patch Automation Pack for Oracle Database](#)
- [Data Masking Pack for Oracle Database](#)

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

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

Diagnostics Pack for Oracle Database

The Diagnostics Pack for Oracle Database offers a complete, cost-effective, and easy-to-use solution for managing the performance of Oracle Database environments by providing unique functionality such as automatic identification of performance bottlenecks, guided problem resolution, and comprehensive system monitoring. You can access the Diagnostics Pack functionality through Enterprise Manager licensed links.

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

Note: System Monitoring Plug-in for Hosts is included with the Diagnostics Pack for Oracle Middleware license.

Features

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

Table 2–1 Features of Diagnostics Pack for Oracle Database

Feature	Benefit
Automatic Workload Repository (AWR)	Provide Oracle Database 10g and Database 11g built-in, automatic capture of statistics data to be used for real-time and historical performance analysis. Snapshot data, active session history data, and workload reports are part of AWR.
Performance monitoring and diagnostics	Measure performance and diagnoses poor performance with associated drill-downs on the Performance page. This includes historical analysis and alert threshold integration.
Automatic Database Diagnostic Monitor (ADDM)	Provide Oracle Database 10g and Database 11g built-in functionality for out-of-the-box automatic performance analysis based on AWR data.
Operating system monitoring	Monitor the operating system and hardware in the drill-downs from Grid Control host monitoring pages.
Adaptive metric thresholds	<p>Capture "baselines" of workload performance metrics during "normal" performance and compares against the same metrics during poor performance to diagnose the causes.</p> <p>Set adaptive thresholds using a pre-defined baseline to accurately detect alert conditions when a system has predictably varying workloads.</p>
Advanced alert management	Include notification methods, rules, and schedules, metric history and associated drill-downs, ability to set blackouts, associate corrective actions with an alert, user-defined metrics, metric snapshots, monitoring templates, adaptive metric thresholds, setting metric baselines, and Memory Access Mode.
Memory access mode	For slow or hung systems, retrieve performance statistics directly from the Shared Global Area (SGA), which avoids the computation associated with parsing and executing SQL statements. This remediates severe cases of library cache contention that can prevent the instance from being monitored in SQL Mode.
Advanced alert management: notification methods, rules and schedules	Define different mechanisms for sending notifications, including e-mail, SNMP traps, or running custom scripts. You can then use these methods with Notification Rules for sending notifications to administrators as a result of alert occurrences. You can set up schedules so that various administrators are notified at the appropriate times.
Advanced alert management: event and metric history	Analyze past performance and issues that have affected your database and host.
Blackouts	Allow Enterprise Manager administrators to suspend any data collection activity on one or more monitored targets, thereby allowing Enterprise Manager administrators to perform scheduled maintenance on targets.
Monitoring templates	Simplify the task of setting up monitoring for large numbers of targets by enabling administrators to specify the monitoring settings once, then apply them as often as needed.

Note: Generation of alerts (through Enterprise Manager or directly by the server in Oracle Database 10g or Database 11g) is not part of this pack; it is free with the database.

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

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

Licensed Links

To determine which links in Oracle Enterprise Manager Database Control and Grid Control are part of the Diagnostics Pack, do the following from the Enterprise Manager Home page:

- Click the **Setup** link on the upper right corner of the Enterprise Manager Home page.
- Click the **Management Pack Access** link. The **Management Pack Access** page appears, which enables you to grant and remove access for all the management packs.
 - For Enterprise Manager Database Control, remove access for the **Database Diagnostics Pack** and click **Apply**.
 - For Enterprise Manager Grid Control, remove access for the **Database Diagnostics Pack** and click **Apply**.

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

Command-Line APIs

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

- The `DBMS_WORKLOAD_REPOSITORY` package is part of this pack.
- The `DBMS_ADDM` package is part of this pack.
- The `DBMS_ADVISOR` package is part of this pack if you specify `ADDM` as the value of the `advisor_name` parameter, or if you specify for the value of the `task_name` parameter any value starting with the `ADDM` prefix.
- The `DBMS_WORKLOAD_REPLAY.COMPARE_PERIOD_REPORT` function is part of this pack.
- The `V$ACTIVE_SESSION_HISTORY` dynamic performance view and its underlying table, `X$ASH`, are part of this pack.
- The `DBA_STREAMS_TP_PATH_BOTTLENECK` view is part of this pack.
- All views beginning with `DBA_ADDM_` are part of this pack
- Some data in `DBA_STREAMS_TP_COMPONENT_STAT` requires this pack. The following filter clause to any query on `DBA_STREAMS_TP_COMPONENT_STAT` shows Diagnostic-Pack-dependent data:

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

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

```
SELECT * FROM DBA_STREAMS_TP_COMPONENT_STAT
       where STATISTIC_UNIT = 'PERCENT';
```

- All data dictionary views beginning with the prefix `DBA_HIST_` are part of this pack, along with their underlying tables, except for these views that you can use without the Diagnostic Pack license: `DBA_HIST_SNAPSHOT`, `DBA_HIST_DATABASE_INSTANCE`, `DBA_HIST_SNAP_ERROR`, `DBA_HIST_SEG_STAT`, `DBA_HIST_SEG_STAT_OBJ`, and `DBA_HIST_UNDOSTAT`.
- All data dictionary views with the prefix `DBA_ADVISOR_` are part of this pack if queries to these views return rows with the value `ADDM` in the `ADVISOR_NAME` column or a value of `ADDM*` in the `TASK_NAME` column or the corresponding `TASK_ID`.
- The following reports found in the `/rdbms/admin/` directory of the Oracle home directory are part of this pack: `awrrpt.sql`, `awrrpti.sql`, `awrgcpt.sql`, `awrgcpti.sql`, `awrgdrpt.sql`, `awrgdrpi.sql`, `addmrpt.sql`, `addmrpti.sql`, `ashrpt.sql`, `ashrpti.sql`, `awrddrpt.sql`, `awrddrpi.sql`, `awrsqrpti.sql`, `awrsqrpt.sql`, `awrextr.sql`, `awrload.sql`, `awrinfo.sql`, `spawrrac.sql`.

Licensed Repository Views

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

- **Monitoring Views**
 - `MGMT$BLACKOUT_HISTORY`
 - `MGMT$BLACKOUTS`
 - `MGMT$ALERT_ANNOTATIONS`
 - `MGMT$ALERT_NOTIF_LOG`
 - `MGMT$TARGET_METRIC_COLLECTIONS`
 - `MGMT$METRIC_COLLECTIONS`
 - `MGMT$TARGET_METRIC_SETTINGS`
 - `MGMT$AVAILABILITY_CURRENT`
 - `MGMT$AVAILABILITY_HISTORY`
 - `MGMT$ALERT_CURRENT`
 - `MGMT$ALERT_HISTORY`
 - `MGMT$METRIC_DETAILS`
 - `MGMT$METRIC_CURRENT`
 - `MGMT$METRIC_HOURLY`
 - `MGMT$METRIC_DAILY`
- **Template Views**
 - `MGMT$TEMPLATES`
 - `MGMT$TEMPLATE_POLICY_SETTINGS`
 - `MGMT$TEMPLATE_METRIC_COLLECTION`

– MGMT\$TEMPLATE_METRIC_SETTINGS

Tuning Pack for Oracle Database

The Tuning Pack for Oracle Database offers a set of ground-breaking technologies that automate the application tuning process, thereby significantly lowering database management costs while enhancing performance and reliability. This significantly improves resource utilization and ensures best application performance without manual intervention.

The Oracle Tuning Pack provides database administrators with expert performance management for the Oracle environment, including SQL tuning and storage optimizations. You can access the Tuning Pack functionality through Enterprise Manager licensed links.

Note: The Tuning Pack for Oracle Database requires a Diagnostics Pack for Oracle Database license. Therefore, customers interested in using any of the Tuning Pack functionality must license both of these packs.

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

Features

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

Table 2–2 Features of Tuning Pack for Oracle Database

Feature	Benefit
SQL Tuning Advisor	Include the ability to analyze SQL statements and make recommendations for better execution, such as applying SQL Profiles or recommending rewriting of the SQL.
SQL Access Advisor	Recommend schema changes needed to improve database performance; for example, creation of new indexes and materialized views.
Reorganize objects	Provide the Schema Object Reorganization wizard to reorganize database objects.
SQL Tuning Sets	A SQL Tuning Set (STS) is a database object that captures and manages SQL workloads. It includes one or more SQL statements along with associated execution context (that is, user schema, list of bind values, and so forth) and execution statistics (that is, elapsed time, CPU time, and so forth).
Real-time SQL Monitoring	Monitor execution of long-running or parallel SQL statements in real-time without any performance overhead.
Automatic SQL Tuning Advisor	Utilize automatic mode of SQL Tuning Advisor, in which the advisor runs automatically during system maintenance windows as a maintenance task. During each run, the advisor selects high-load SQL queries in the system, and generates recommendations on how to tune them.

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

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

Licensed Links

To determine which links in Oracle Enterprise Manager Database Control and Grid Control are part of the Tuning Pack, do the following from the Enterprise Manager Home page:

- Click the **Setup** link on the upper right corner of the Enterprise Manager Home page.
- Click the **Management Pack Access** link. The **Management Pack Access** page appears, which enables you to grant and remove access for all the management packs.
 - For Enterprise Manager Database Control, remove access for the **Database Tuning Pack** and click **Apply**.
 - For Enterprise Manager Grid Control, remove access for the **Database Tuning Pack** and click **Apply**.

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

Command-Line APIs

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

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

Change Management Pack for Oracle Database

The Change Management Pack for Oracle Database enables administrators to identify and implement planned database schema changes to support new application requirements without errors and data loss, as well as track unplanned schema changes that may be causing downtime. Using the Change Management Pack, administrators can investigate and track complex changes, compare and synchronize objects and schemas, modify schema objects, evaluate the change impact, and if required, undo previous changes. The Change Management Pack makes applying schema changes

simple and efficient, and minimizes potential errors, thereby reducing the opportunity for data loss and system down-time.

Features

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

Table 2–3 Features of Change Management Pack for Oracle Database

Feature	Benefit
Baselines	Capture and version baselines. Capture database and schema definitions.
Baseline import and export	Transfer a baseline from one Grid Control environment to another by exporting and importing the baseline to an external file.
Comparisons	Compare baseline with database, or database with database, schema with schema.
Synchronization	Propagate database objects and schemas with or without data, and update database object definitions.
Reverse engineering	Reverse-engineer database and schema definitions.
Copying objects	Copy database objects with data, with a subset of the data, or without data.
Object definition updates	Update database objects definitions (<code>ALTER_TABLE</code>).
Change evaluation	Evaluate the impact of changes.
Cloning and propagation	Clone or propagate application schemas.
Real-time schema change detection	Track schema changes in real time to identify unwanted or unplanned changes.

Licensed Parameters

The use of the following `init.ora` parameter is licensed as part of the Oracle Change Management Pack when set to `TRUE`:

- `ENABLE_DDL_LOGGING`

The default is `FALSE`.

Licensed Links

The following licensed pages and links of this pack apply to change management for Oracle Databases.

- From the Grid Control Home page, select the **Databases** sub-tab. In the Related Links section, the following links and associated pages are licensed as part of the pack:
 - **Dictionary Baselines**
 - **Dictionary Comparisons**
 - **Dictionary Synchronizations**

Configuration Management Pack for Oracle Database

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

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

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

Features

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

Table 2–4 Features of Configuration Management Pack for Oracle Database

Feature	Benefit
Database and host configuration management	Provide hardware and software configuration data collection, search, comparison, real-time change detection, and analytical reporting.
Patching	Include Critical Patch Advisories, which alert you to critical patches that need to be applied.
Policy and security management	<ul style="list-style-type: none"> Ensure consistency of deployments, system security checks and scoring, and adherence to operation standards. Include policy violation notifications and Enterprise Security Advisor. Utilize out-of-box policies or generate user-defined policies to meet your specific operational best practices, industry, or regulatory compliance requirements.

Table 2–4 (Continued) Features of Configuration Management Pack for Oracle Database

Feature	Benefit
Policy groups	<p>Provide structured collection of security configuration rules against which targets can be measured or judged. This release provides the following out-of-box policy groups:</p> <ul style="list-style-type: none"> Secure configuration for the Oracle Database Secure configuration for the Oracle Listener Secure configuration for Oracle Real Application Clusters <p>Create your own policy groups to specifically address your operational processes and best practice needs. Choose from the library of out-of-box or user-defined policies to group policies to meet your specific needs. This capability enables you to create, edit, and delete policy groups.</p> <p>This feature is accessible from the Policy Group sub-tab under the Compliance tab.</p>
Deployments/installations, including patch-level	<p>Understand what you have by utilizing the Configuration Management Pack for Oracle Database for discovery, asset tracking of all hardware and software configurations, configuration change tracking, and maintenance of relationships.</p>
Client system analyzer	<p>Enable your system administrators to collect and analyze configuration information and data from end-user systems. Using the pre-installed application enables you to collect end-user configuration information without setting up a separate Web server. The Management Agents collect, analyze, and upload the end-user configuration information to the Management Repository.</p>
Security at a glance	<p>From a single view, monitor and standardize compliance to security standards across your enterprise. View compliance scores and track trends over time to understand improvements in compliance or deviations. Drill down into individual targets to understand policy violations and closed loop remediation.</p>
Real-time configuration change detection	<p>Provide real-time configuration change detection and automation of compliance frameworks, such as Sarbanes-Oxley (SOX), Information Technology Infrastructure Library (ITIL), and Payment Card Industry (PCI) data security standards.</p> <p>Oracle Configuration Management Pack for Oracle Database solves this need with a centralized Configuration Change Console that includes out-of-box and user-defined policies and controls.</p>
Application configuration management	<p>Provide a comprehensive solution for managing the application infrastructure underlying mission-critical applications. The Application Configuration Console provides an automated “gold master” methodology to application infrastructure management providing IT infrastructure personnel the ability to:</p> <ul style="list-style-type: none"> Capture the current state of configuration settings for IT assets. Monitor these IT assets for changes. Automate processes for provisioning configuration changes along with setting up new environments throughout the application life-cycle — from development through testing, then production.

Licensed Links

The following licensed pages and links of this pack apply to configuration management for Oracle Databases.

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

- From the **Grid Control Home** page, click the **Targets** tab, then select the **Systems** sub-tab. On the **Systems** page, the following items are licensed as part of the pack:
 - **Policy Violations** links
- From the **Systems** page, click any system **Name**. On the **System Home** page, everything is licensed as part of the pack except for the Status and Alerts sections.
- From the **Grid Control Home** page, click the **Targets** tab, then select the **Groups** sub-tab. On the **Groups** page, the following items are licensed as part of the pack:
 - **Policy Violations** links
- From the **Groups** page, click any group **Name**. On the **Group Home** page, everything is licensed as part of the pack except for the Status and Alerts sections.
- From the **Groups Home** page, click the **Administration** tab. The following links and features are licensed features of the pack:
 - **Hardware and Operating Systems** related information in the **Deployments Summary** section
 - **Host Operating System and Hardware Summaries** selection for the **Configuration Searches** section
- Click the **Setup** link on the upper right corner of the Enterprise Manager console, then click the **Monitoring Templates** link. On the **Monitoring Templates** page, click any Name. The **Policies** sub-tab on the **View Monitoring Template** page is a licensed feature of the pack.

Licensed Reports

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

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

Additional Licensed Features

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

Configuration Change Console

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

Real-time Change Detection

The Configuration Change Console is a policy-based system designed to help organizations and administrators support their IT compliance goals and help deliver

the level of service expected by their users. The console includes a set of predefined frameworks created by industry experts to meet common compliance requirements. This enables IT departments to quickly and easily demonstrate compliance with government regulations and industry standards such as SOX, PCI, and ITIL.

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

The Configuration Change Console automates the detection and capture of user and application actions that result in changes to the infrastructure without requesting or requiring user input. This automates the compliance audit trail and minimizes the time required to uncover compliance breaches.

Examples of components monitored for configuration change include:

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

Integration Capabilities

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

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

Configuration Change Console Restricted-use Licensing

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

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

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

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

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

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

Oracle includes restricted-use licenses for Oracle Business Intelligence with the Configuration Change Console. If you want to use Oracle Business Intelligence not solely for the purpose of reporting on the data within the Configuration Change Console Server, you must purchase full-use licenses for Oracle Business Intelligence. You can use the restricted-use license to:

- Utilize out-of-box reports shipped with the Configuration Change Console.
- Modify out-of-box report visualization and layouts.
- Add additional data to reports with the Configuration Change Console repository as the sole source of additional data.
- Create new reports with the Configuration Change Console repository as the sole source of data.

Application Configuration Console

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

The Application Configuration Console provides:

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

Application Configuration Console Restricted Use Licensing

Application Configuration Console includes a restricted-use license for Oracle Database (Enterprise Edition) solely for the purpose of running the Application Configuration Console Server.

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

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

Licensed Repository Views

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

- **Policy Definition Views**

- MGMT\$POLICIES
- MGMT\$POLICY_PARAMETERS
- MGMT\$POLICY_VIOLATION_CTXT
- MGMT\$POLICY_VIOL_ANNOTATIONS
- MGMT\$POLICY_VIOL_NOTIF_LOG

- **Policy Association Views**

- MGMT\$TARGET_POLICIES
- MGMT\$TARGET_POLICY_SETTINGS
- MGMT\$TARGET_POLICY_EVAL_SUM
- MGMT\$TARGET_COMPLIANCE_SCORE

- **Policy Violation Views**

- MGMT\$POLICY_VIOLATION_CURRENT
- MGMT\$POLICY_VIOLATION_HISTORY
- MGMT\$POLICY_VIOLATION_CONTEXT

- **Configuration Views**

- MGMT\$DB_TABLESPACES
- MGMT\$DB_DATAFILES
- MGMT\$DB_CONTROLFILES

- **Oracle Home Patching**

- MGMT\$CPF_ADVISORY_INFO
- MGMT\$CPF_HOMES_INFO
- MGMT\$CPF_PATCH_INFO
- MGMT\$EM_HOMES_PLATFORM
- MGMT\$HOMES_AFFECTED
- MGMT\$PATCH_ADVISORIES

- MGMT\$APPL_PATCH_AND_PATCHSET
- MGMT\$APPLIED_PATCHES
- MGMT\$APPLIED_PATCHSETS
- **Linux Patching**
 - MGMT\$HOSTPATCH_HOSTS
 - MGMT\$HOSTPATCH_GROUPS
 - MGMT\$HOSTPATCH_GRP_COMPL_HIST
 - MGMT\$HOSTPATCH_HOST_COMPL
- **Security Views**
 - MGMT\$ESA_ALL_PRIVS_REPORT
 - MGMT\$ESA_ANY_DICT_REPORT
 - MGMT\$ESA_ANY_PRIV_REPORT
 - MGMT\$ESA_AUDIT_SYSTEM_REPORT
 - MGMT\$ESA_BECOME_USER_REPORT
 - MGMT\$ESA_CATALOG_REPORT
 - MGMT\$ESA_CONN_PRIV_REPORT
 - MGMT\$ESA_CREATE_PRIV_REPORT
 - MGMT\$ESA_DBA_GROUP_REPORT
 - MGMT\$ESA_DBA_ROLE_REPORT
 - MGMT\$ESA_DIRECT_PRIV_REPORT
 - MGMT\$ESA_EXMPT_ACCESS_REPORT
 - MGMT\$ESA_KEY_OBJECTS_REPORT
 - MGMT\$ESA_OH_OWNERSHIP_REPORT
 - MGMT\$ESA_OH_PERMISSION_REPORT
 - MGMT\$ESA_POWER_PRIV_REPORT
 - MGMT\$ESA_PUB_PRIV_REPORT
 - MGMT\$ESA_SYS_PUB_PKG_REPORT
 - MGMT\$ESA_TABSP_OWNERS_REPORT
 - MGMT\$ESA_TRC_AUD_PERM_REPORT
 - MGMT\$ESA_WITH_ADMIN_REPORT
 - MGMT\$ESA_WITH_GRANT_REPORT
- **Client Configuration Views**
 - MGMT\$CSA_COLLECTIONS
 - MGMT\$CSA_FAILED
 - MGMT\$CSA_HOST_OS_COMPONENTS
 - MGMT\$CSA_HOST_SW
 - MGMT\$CSA_HOST_COOKIES

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

Provisioning and Patch Automation Pack for Oracle Database

The Provisioning and Patch Automation Pack for Oracle Database automates the deployment of servers, software, and patches. Functionality is provided for "bare-metal" provisioning of operating systems and software images, cloning of existing installations and software images (such as Oracle Clusterware, Oracle Real Application Clusters, and Oracle Automatic Storage Management), and patching. Critical data center operations become easy and scalable, resulting in lower operational risk and cost of ownership.

Features

The Provisioning and Patch Automation Pack includes the following features you can use after purchasing a license for the pack.

Table 2–5 Features of Provisioning and Patch Automation Pack for Oracle Database

Feature	Benefit
Patching	<ul style="list-style-type: none"> Provide end-to-end patching of Oracle products across a wide-range of product patches and customer environments. These include Oracle Database, Oracle Real Application Clusters, Clusterware, and Automatic Storage Management. Integrated management with My Oracle Support providing enhanced levels of patch automation. These include features such as Patch Recommendations and Community information regarding the Patch. The pack also covers the automated deployment part of Patches using PLANs along with Patch Validation and the Merge Patch request process. Patching includes Patch via Deployment Procedures, Linux Patching, and Patch Cache. Provide automated Linux host patching and integration with an Unbreakable Linux network (ULN). Patch Recommendations provide alerts on the patches across Security, Legislative, and Other recommendations that need to be applied. Provide Solaris and Windows patching. Provide out-of-box and custom reporting on patching.
Provisioning and Cloning	<ul style="list-style-type: none"> Create and maintain a library of reference software images. Deploy operating systems and software to bare metal servers. Provide a provisions standard, or "gold," images of Oracle Database, Oracle Real Application Clusters, and Oracle Application Server. Extend RAC clusters or Oracle Application Server middleware. Provide out-of-box and custom reporting on provisioning and deployments. Clone databases and Oracle homes. Convert single-instance databases to RAC.
Security management	<ul style="list-style-type: none"> Ensure system security, and adherence to operation standards. Include policy violation notifications and Enterprise Security Advisor.
Standby database creation	<ul style="list-style-type: none"> Automate the error-prone task of data guard standby database creation.

Licensed Links

The list that follows itemizes the links that require licensing of the Provisioning and Patch Automation Pack for Oracle Database. You can navigate to these features in several ways. The instructions below assume that you begin from the main Grid Control Home page.

- From the **Enterprise Manager Home** page:

- Select any of the links in the **Security Violations** section. On the resulting **Violations** page, the **Security At a Glance** tab is a licensed feature of the standalone Provisioning and Patch Automation Pack.
- Under the section **Critical Patch Advisories for Oracle Homes**, any **Patch button** is a licensed feature of the pack.
- From the **Deployments** page linked from the **Enterprise Manager Home** page:
 - Under the section **Critical Patch Advisories for Oracle Homes**, any **Patch button** is a licensed feature of the pack.
 - Under the **Patching** section, the links **Patching through Deployment Procedures**, **View/Upload Patch**, and **Patch Linux Hosts** are all licensed under the Provisioning and Patch Automation Pack for Oracle Database.
 - Under the **Cloning** section, the links **Clone Database** and **Clone Oracle Home** are both part of the Provisioning feature.
 - Under the **Deployment Procedure Manager** section, the general link **Deployment Procedures** and specific functionality procedures links, such as **RAC Provisioning Procedures**, **Patch Procedures**, and **Extend Cluster Database** are all licensed under the Provisioning and Patch Automation Pack for Oracle Database.

Only Deployment Procedures associated with the Operating System and Database are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database. All other Deployment Procedures are associated with the other Provisioning and Patch Automations packs.
 - The sub-navigation tab **Provisioning** and the tabs under the page are all licensed under the Provisioning and Patch Automation Pack for Oracle Database.
 - The sub-navigation tab **Patches & Updates**, the following links, and associated features are licensed under the Provisioning and Patch Automation Pack.
 - * **Patch via Deployment Procedures**
 - * **Linux Patching**
 - * **Patch Cache**
- From the **My Oracle Support** page linked from the **Enterprise Manager Home** page::
 - Under the section **Patches & Updates**, the following links are licensed features of the Provisioning and Patch Automation Pack:
 - * The link **Patch via Deployment Procedures** and all tabs and links under that page are all licensed under the Provisioning and Patch Automation Pack.
 - * The link **Linux Patching** and all tabs and links under that page are licensed under the Provisioning and Patch Automation Pack.
 - * The link **Patch Cache** and all tabs and links under that page are licensed under the Provisioning and Patch Automation Pack.
 - Under the section **Patch Recommendations**, all features and links are licensed features of the Provisioning and Patch Automation Pack.
 - Under the section **Patch Plans**, all features associated with **PLANs**, such as **Create/Add to Plans** and **Validation and Merge Request** process, along with

integration with Deployment Procedures, are licensed features of the Provisioning and Patch Automation Pack.

- On the **Database Home** page **Software and Support** tab, the following links are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database:
 - **Apply Patch, View Patch Cache, and Patch Prerequisites** under the **Database Software Patching** section
 - **All of the links** under the Deployment Procedure Manager section
- On the **Database Home** page **Data Movement** tab, the **Clone Database** link in the Move Database Files section is licensed as part of the Provisioning and Patch Automation Pack for Oracle Database.
- On the **Database Home** page **Server** tab, the following links under the Change Database section are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database:
 - **Convert to Cluster Database** link
 - **Add Instance** (only for RAC database)
 - **Delete Instance** (only for RAC database)
- On the **Database Home** page **Server** tab, the **Migrate to ASM** link under the Storage section is licensed as part of the Provisioning and Patch Automation Pack for Oracle Database.
- On each of the following target tabs, the **Security At a Glance** link is licensed as part of the Provisioning and Patch Automation Pack for Oracle Database:
 - **Host Targets** tab, navigate to the **Host Home** page, then select the **Enterprise Security At a Glance** link.
 - **Groups** tab, navigate to the **Group Home** page, then select the **Security At a Glance** link.
 - **Systems** tab, navigate to the **Systems Home** page, then select the **Security At a Glance** link.
 - **Web Applications** tab, navigate to the **Web Applications Home** page. From there, select the **System** link, then the **System (Topology)** link, and then select the **Security At a Glance** link.
 - **Services** tab, navigate to the **Service Home** page. From there, select the **System** link, then the **System (Topology)** link, and then select the **Security At a Glance** link.
- From the **Grid Control Home** page, click the **Setup** link in the upper right corner of the page. On the **Overview of Setup** page, click the **Agents sub-tab**. From the **Agents** page, click an **agent** to display the **Agent Home** page. The **Dell Change Automation** selection from the Add drop-down menu under the Monitored Targets section is a licensed feature of the Provisioning and Patch Automation Pack for Oracle Database.
- From the **Grid Control Home** page, click the **Targets** tab, then **All Targets**. On the All Targets page, click the **Dell Change Automation** link. All links and features available on or linked to from the **Dell Change Automation** page are licensed as part of the Provisioning and Patch Automation Pack for Oracle Database.

Additional Licensed Features

The oplan utility is an independent tool that operates with Opatch to provide advanced capability for patching Oracle Software. oplan currently generates context-sensitive patch installation instructions based on the customer's environment, which simplifies the Oracle software patching experience for Oracle customers. The oplan-generated installation instructions are computed based on the automation scheme chosen by the user in relation to the specific environment and configuration where the tool is invoked.

oplan is provided under the My Oracle Support Terms of Use, your agreement with Oracle, and the terms of Oracle's applicable Technical Support Policies. Any use of oplan not specifically authorized in the My Oracle Support Terms of Use, your agreement with Oracle, and the terms of Oracle's applicable Technical Support Policies is strictly prohibited. Any usage directly or indirectly with a third party of commercial interest requires an Oracle Provisioning and Patch Automation for Database pack license.

Data Masking Pack for Oracle Database

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

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

Features

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

Table 2–6 *Features of Data Masking Pack for Oracle Database*

Feature	Benefit
Define format libraries	Define and use standard mask formats for sensitive data across databases.
Create or use masking definitions	Specify which tables and columns are to be masked as well as the formats used to mask columns.
Export or import application masking templates	Allows application developers or application providers to provide database administrators with a ready-to-use mask definition in a portable XML format.
Export or import format libraries	Allows application developers or information security analysts to provide a ready-to-use definition for common sensitive data that database administrators can reference when specifying a mask definition.

Licensed Links

The list that follows itemizes the links that require licensing of the Data Masking Pack for Oracle Database. You can navigate to these features in several ways. The instructions below assume that you begin from the main Grid Control Home page.

- From the **Enterprise Manager Home** page:
 - Click the **Targets** tab, then the **Databases** sub-tab.

- Select a **database name** from the table. The Database Instance Home page appears.
- Click the **Schema** sub-tab. From the Database Instance Schema page that appears, click **Definitions** in the Data Masking section. All links, buttons, and drilldowns on the Masking Definition page are licensed features of this pack.
- From the Database Instance Schema page, click **Format Library** in the Data Masking section. All links, buttons, and drilldowns on the Format Library page are licensed features of this pack.

Licensed Command Line Interface (CLI) Verbs

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

- `export_masking_definition`
- `generate_masking_script`
- `import_masking_definition`
- `list_masking_definitions`
- `reassoc_masking_definition`
- `save_masking_script`
- `submit_masking_job`

Oracle Middleware Enterprise Management

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

- [WebLogic Server Management Pack Enterprise Edition](#)
- [SOA Management Pack Enterprise Edition](#)
- [Management Pack for WebCenter Suite](#)
- [Diagnostics Pack for Oracle Middleware](#)
- [Management Pack for Oracle Coherence](#)

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

Note: Some information displayed in the Oracle Enterprise Manager 11g Grid Control console for the following licensable entities is missing, inaccurate, and/or incomplete:

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

Accurate and complete information on these licensable products is expected to be available in a future release of Oracle Enterprise Manager 11g Grid Control. Meanwhile, refer to this document for accurate and complete information.

WebLogic Server Management Pack Enterprise Edition

This pack offers a complete, cost-effective, and easy-to-use solution for managing Oracle Fusion Middleware, Oracle WebLogic Server, and Oracle Application Server. At a high level, this pack provides capabilities for application performance management, configuration management, service level management, coherence management as well as provisioning and patch automation for Oracle Application Server, Oracle Fusion Middleware, and/or Oracle WebLogic Server software.

The features available with this pack are as follows:

- Application performance management features are available in Oracle Enterprise Manager 11g Grid Control.

- Configuration management features are available in Oracle Enterprise Manager 11g Grid Control, Configuration Change Console, and Application Configuration Console.
- Service level management features are available in Oracle Enterprise Manager 11g Grid Control.
- Coherence management features are available in Oracle Enterprise Manager 11g Grid Control.
- Business Transaction Management features are available in Oracle Business Transaction Management.
- Provisioning and patch automation features are available in Oracle Enterprise Manager 11g Grid Control.

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

Features

The following sections provide feature overviews for each of the multiple products associated with WebLogic Server Management Pack Enterprise Edition.

Application Performance Management

The WebLogic Server Management Pack Enterprise Edition improves the availability and performance of Java applications with low overhead, and provides in-depth diagnostics. The pack enables administrators to proactively monitor application performance and diagnose the root cause of performance problems, such as applications crashing and hanging in a production environment, which may severely impact businesses.

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

You can access the application performance management features available with the WebLogic Server Management Pack Enterprise Edition through Grid Control licensed links and by installing JRockit Mission Control. Both of these components comprise the application performance management features provided by the WebLogic Server Management Pack Enterprise Edition.

Unless otherwise stated, the features listed in [Table 3–1](#) apply to both Oracle WebLogic Server and Oracle Application Server environments. In some cases, as noted in the table, the features also apply to the underlying host target types on which the middleware software has been installed.

Table 3–1 Feature Highlights of Application Performance Management within the WebLogic Server Management Pack Enterprise Edition

Feature	Benefit
Historical performance monitoring (Applies to underlying host on which middleware software has been installed.)	Track availability and performance data over time to help identify trends and/or possible performance problems.
Advanced alert management (Applies to underlying host on which middleware software has been installed.)	Provides notification methods, rules and schedules and associated drill-downs, ability to set blackouts, associate corrective actions with alerts, user-defined metrics, metric snapshots, and monitoring templates.
Request performance	Historical views show the response times for end-user requests. Response time breakdowns are available in each layer (servlet, JSP, EJB, JDBC, and SQL) of an OC4J container.
Interactive transaction trace (Applies only to Oracle Application Server.)	<ul style="list-style-type: none"> Play a transaction interactively from the browser and view the response time profile. View the time consumed in the network and server. View the response time breakdowns in each layer (servlet, JSP, EJB, JDBC, and SQL) of an OC4J container.
Hot deployment without server restarts or configuration changes	<ul style="list-style-type: none"> Quick time to value Simple to deploy Easy to use
"Always on" low overhead monitoring, notifications, and dashboards	<ul style="list-style-type: none"> Diagnose past problems Receive early warnings of outages See a single view of the status of all applications
WebLogic Domain/JVM pool monitoring	<ul style="list-style-type: none"> Monitor all JVMs of an application together with uniform monitoring settings. Different administrators can monitor and receive notifications on different applications
Real-time visibility into a JVM and application state without instrumentation overhead	<p>This feature applies to applications deployed to both Oracle Application Server and WebLogic Server.</p> <ul style="list-style-type: none"> No need to reproduce problems in a test environment. No application knowledge required.
Trace in-flight transactions	<ul style="list-style-type: none"> View request performance problems in real time. Analyze time spent in each resource bottleneck and Java method.
Cross-tier trace with Oracle Database	<ul style="list-style-type: none"> View the impact of database problems on all associated applications and JVMs. Clearly isolate problems between Java and the database. Achieve smooth communication between application administrators and DBAs.
Differential heap analysis	<ul style="list-style-type: none"> Utilize memory leak analysis in production. Simplify memory growth and leak analysis.
Service-level objectives	Provide service-level objectives (SLOs) at any point within the architecture for indicators and alerts.

Table 3–1 (Continued) Feature Highlights of Application Performance Management within the WebLogic Server Management Pack Enterprise Edition

Feature	Benefit
Contextual visibility into Java EE and web service metrics	Provide drill-down contextual visibility into Java EE and web service metrics, enabling administrators to both quickly understand and analyze their application to identify potential bottlenecks and performance trends, as well as prepare for capacity changes and overall application management.
Metrics visibility for any layer	Automatically generate customized dashboards and views to view metrics at any layer in the application through graphs and tables.
Business transaction monitoring (Applies only to Oracle WebLogic Server)	Provide transaction request visibility across multi-tier architecture for WebLogic applications, including individual transaction tracing and aggregated metrics.
JRockit Mission Control	Monitor, manage, profile, and diagnose your applications when running on the JRockit JVM.

Note: Within the WebLogic Server Management Pack Enterprise Edition, licensing is restricted to Java EE and web service components with respect to the Application Dependency and Performance pages in Enterprise Manager Grid Control and does not include SOA, BPEL, WebCenter, Portal, OSB, ESB, AIA, or Pageflow components.

Configuration Management

Configuration management features within the WebLogic Server Management Pack Enterprise Edition automate the process of managing software and hardware configurations and deployments. This pack provides capabilities such as search and compare across environments, configuration monitoring, policy management and compliance support, security configuration scoring and dashboards, and comprehensive reporting for Oracle middleware software.

You can access the configuration management features available with the WebLogic Server Management Pack Enterprise Edition through Grid Control licensed links and by installing the Configuration Change Console and Application Configuration Console. All three of these components comprise the configuration management features provided by the WebLogic Server Management Pack Enterprise Edition.

Note: To obtain all the features of the WebLogic Server Management Pack Enterprise Edition, you need to enable the Configuration Management Pack for Applications in Grid Control for the host on which you have the licensed WebLogic Server Management Pack Enterprise Edition.

Unless otherwise stated, the features listed in [Table 3–2](#) apply to both Oracle WebLogic Server and Oracle Application Server environments, as well as the underlying host target types on which they have been installed.

Table 3–2 Feature Highlights of Configuration Management Within WebLogic Server Management Pack Enterprise Edition

Feature	Benefit
Middleware and host configuration management	Provide hardware and software configuration data collection, search, comparison, historical change tracking, and analytical reporting.
Patching (Applies only to Oracle Application Server)	Include Critical Patch Advisories, which alert you to critical patches you need to apply.
Policy and security management	<ul style="list-style-type: none"> ▪ Ensure consistency of deployments, system security, and adherence to operation standards. ▪ Receive policy violation notifications, including Enterprise Security Advisories. ▪ Utilize out-of-box policies or generate user-defined policies to meet your specific operational best practices, industry requirements, or regulatory compliance requirements.
Policy groups	<ul style="list-style-type: none"> ▪ Provide a structured collection of security configuration rules against which you can measure or judge targets. ▪ Create your own policy groups to specifically address your operational processes and best practice needs. Choose from the library of out-of-box or user-defined policies to group policies to meet your specific needs. This capability enables you to create, edit, and delete policy groups. <p>This feature is accessible from the Policy Group sub-tab under the Compliance tab.</p>
Deployments/installations, including patch-level	Understand what you have by utilizing the WebLogic Server Management Pack Enterprise Edition for discovery, asset tracking of middleware software and its underlying hardware configurations, configuration change tracking, and maintenance of relationships.
Client System Analyzer	Enable your system administrators to collect and analyze configuration information and data from end-user systems. Using the pre-installed application enables you to collect end-user configuration information without setting up a separate Web server. The Management Agents collect, analyze, and upload the end-user configuration information to the Management Repository.
Security at a glance (Applies only to Oracle Application Server)	From a single view, monitor and standardize compliance to security standards across your enterprise. View compliance scores and track trends over time to understand improvements in compliance or deviations. Drill down into individual targets to understand policy violations and closed loop remediation.

Table 3–2 (Continued) Feature Highlights of Configuration Management Within WebLogic Server Management Pack Enterprise Edition

Feature	Benefit
Real-time configuration change detection	<p>Provide real-time configuration change detection and automation of compliance frameworks, such as Sarbanes-Oxley (SOX), Information Technology Infrastructure Library (ITIL), and Payment Card Industry (PCI) data security standards.</p> <p>WebLogic Server Management Pack Enterprise Edition solves this need with a centralized Configuration Change Console that includes out-of-box and user-defined policies and controls.</p> <p>Note: WebLogic Server Management Pack Enterprise Edition features within the Configuration Change Console are restricted to the Oracle Fusion Middleware, Oracle WebLogic Server, and Oracle Application Server related targets residing in the Oracle Middleware home, platform and operating system configurations. Any user or application configuration-related files residing on the operating system not associated with the Oracle Middleware home are not part of the WebLogic Server Management Pack Enterprise Edition.</p>
Application configuration management	<p>Provide a comprehensive solution for managing the application infrastructure underlying mission-critical applications. The Application Configuration Console provides an automated "gold master" methodology to application infrastructure management providing IT infrastructure personnel with the ability to:</p> <ul style="list-style-type: none"> ▪ Capture the current state of configuration settings for IT assets. ▪ Monitor these IT assets for changes. ▪ Automate processes for provisioning configuration changes along with setting up new environments throughout the application life-cycle — from development through testing, then production. <p>Note: WebLogic Server Management Pack Enterprise Edition features within the Application Configuration Console are restricted to the Oracle Fusion Middleware, Oracle WebLogic Server, and Oracle Application Server related targets residing in the Oracle Middleware home, platform and operating system configurations. Any user or application configuration-related files residing on the operating system not associated with the Oracle Middleware home are not part of the WebLogic Server Management Pack Enterprise Edition.</p>

Service Level Management

Service Level Management features within the WebLogic Server Management Pack Enterprise Edition offer 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, the Service Level Management assesses the business impact of any service problem or failure, and indicates whether service level goals have been met.

Service Level Management within the WebLogic Server Management Pack Enterprise Edition includes the features shown in [Table 3–3](#).

Table 3–3 Feature Highlights of Service Level Management Within WebLogic Server Management Pack Enterprise Edition

Feature	Benefit
Service modeling	Model critical business functions based on a wide range of supported protocols.
Complete service monitoring	Monitor service availability, performance, usage, and service level compliance.
Beacons	Measure availability and performance from representative key user locations.

Coherence Management

Oracle Coherence 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.

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. 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.

Oracle Coherence within the WebLogic Server Management Pack Enterprise Edition includes the high-level features shown in [Table 3–14](#).

Table 3–4 Feature Highlights of Oracle Coherence Within WebLogic Server Management Pack Enterprise Edition

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

Business Transaction Management

The WebLogic Server Management Pack Enterprise Edition includes Business Transaction Management (BTM) features only for Java EE and web service components running on WebLogic Server or Oracle Application Server, as shown [Table 3–5](#). BTM is separately installed from Grid Control.

Table 3–5 Feature Highlights of Business Transaction Management Within WebLogic Server Management Pack Enterprise Edition

Feature	Benefit
Transaction discovery	Discover, record, and correlate transactions as they flow across components that may span multiple WebLogic and/or Oracle Application Server instances.
Contextual visibility into Java EE metrics	Provide drill-down contextual visibility into Java EE, enabling administrators to both quickly understand and analyze distributed applications to identify potential bottlenecks and performance trends, as well as prepare for capacity changes and overall application management.
Transaction-level agreements	Provide transaction-level objectives (TLOs) that span multiple interacting components.
Exception management	Transaction alerting and searching to locate exceptions and errors in transactions that span multiple application components

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

- JAX-WS
- JAX-RPC
- JDBC
- EJB
- JMS
- Java

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

Provisioning and Patch Automation

Provisioning and patch automation features within the WebLogic Server Management Pack Enterprise Edition automate deployment of Oracle middleware software and automate application of Oracle middleware patches. The features provide easy and scalable critical data center operations, resulting in lower operational risk and cost of ownership. The features in this pack provide functionality for "bare-metal" provisioning of operating systems and Oracle middleware software images, cloning of existing Oracle middleware installations, and operating system and Oracle middleware patching.

Unless otherwise noted, the features listed in [Table 3–5](#) apply to only to Oracle Application Server environments, as well as the hosts on which these targets reside.

Table 3–6 Feature Highlights of Provisioning and Patch Automation Within WebLogic Server Management Pack Enterprise Edition

Feature	Benefit
Patching	<ul style="list-style-type: none"> Provide end-to-end patching of the Oracle Application Server across a wide range of product patches and customer environments. Provide automated Linux, Solaris, and Windows host patching and integration with an Unbreakable Linux Network (ULN). Receive alerts to critical patches that need to be applied through Critical Patch Advisories, and automate the downloading and deployment of patches through the Critical Patch Facility.
Provisioning	<ul style="list-style-type: none"> Create and maintain a library of reference software images. Deploy operating systems and Oracle Application Server software to bare metal servers. Create a provisions standard, or "gold" image of Oracle Application Server software. Leverage out-of-box and custom reporting on provisioning and deployments.
Cloning (Applies to Oracle Fusion Middleware, Oracle WebLogic Server, and Oracle Application Server)	<ul style="list-style-type: none"> Clone Oracle Fusion Middleware 11g, Oracle WebLogic Server, and Oracle Application Server. Extend Oracle WebLogic Domain, Oracle Application Server DCM Managed Clusters, and Oracle Application Server Clusters. Clone Forms and Report Services version 9.0.4 and 10.1.2.
Security management	<ul style="list-style-type: none"> Ensure system security and adherence to operation security standards. Receive notifications for security policies, including Enterprise Security Advisories.

Licensed Links

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

Oracle Fusion Middleware 11g Targets

- Oracle Fusion Middleware Farm
- Oracle WebLogic Domain
- Oracle WebLogic Cluster
- Oracle WebLogic Server
- SMPP Driver
- Clustered Application Deployment
- Application Deployment
- Oracle HTTP Server

- Oracle Web Cache
- Oracle Coherence
- VoiceXML Driver
- Discoverer
- Oracle Forms Services
- Oracle Portal
- Oracle Reports Application
- XMPP Driver
- Oracle Reports Bridge
- Oracle Reports Server
- Oracle Reports Tools
- Oracle User Messaging Service
- User Messaging Email Driver

Oracle Application Server 10g Targets

- 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
- Discoverer
- Oracle Portal
- BC4J
- Oracle Workflow
- Oracle Application Server Wireless

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

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

Licensed Links Outside of Target-specific Pages

General

All of the Grid Control pages have a set of four links in the top right corner: Setup, Preferences, Help, and Logout.

- Click the **Setup** link. A set of links on the left side of the Setup page appears.
 - **Client System Analyzer** in the Grid Control link is part of this pack.

Grid Control Home Page

Several sections are licensed on the Grid Control home page.

- In the Critical Patch Advisories for Oracle Homes section, **the links related to the target types identified above** are part of this pack.
- In the Deployments Summary section, **the links related to the target types identified above and their underlying host** are part of this pack.
- In the Security Policy Violations section, **the links related to the target types identified above and their underlying host** are part of this pack.
- In the All Targets Policy Violation section, **the links related to the target types identified above and their underlying host** are part of this pack.

Deployments Tab Page

On the Grid Control Home Page, there is a Deployments tab. There are several sections on the Deployments page.

- In the Critical Patch Advisories section, **the links related to the target types identified above** are part of this pack.
- In the Deployment Summary section, **the links related to the target types identified above and their underlying host** are part of this pack.
- In the Configuration section, **the links related to the target types identified above and their underlying host** are part of this pack.
- In the Client Configurations section, **the links related to the target types identified above** are part of this pack.

Alerts Tab Page

On the Alerts page, there is a Targets Down sub-tab.

- The links in the **Message column** that are related to the target types identified above and their underlying host are part of this pack.

On the Alerts page, there is a Critical sub-tab.

- The links in the **Message column** that are related to the target types identified above and their underlying host are part of this pack.

On the Alerts page, there is a Warning sub-tab.

- The links in the **Message column** that are related to the target types identified above and their underlying host are part of this pack.

Compliance Tab Page

On the Grid Control Home Page, there is a Compliance tab.

- In the Compliance page, the links related to the target types identified above and their underlying host are part of this pack.

Reports Tab Page

The links to the following report categories and/or reports related to the target types identified above and their underlying host are part of this pack:

- Deployment and Configuration category
 - All reports within the **Client Configurations** sub-category
 - All reports within the **Hardware** sub-category
 - All reports within the **Linux Operating System Patching** sub-category
 - All Reports within the **Operation System** sub-category
 - All reports within the **Oracle Fusion Middleware Software** sub-category
 - All reports within the **Oracle Home Patch Advisories** sub-category
 - All reports within the **Patching Automation Reports** sub-category
- Monitoring category
 - Alerts and Policy Violations sub-category
 - * 20 most Common Alerts and Policy Violations
 - * 20 Most common Alerts and Policy Violations (Target)
 - * Alerts and Policy Violations History
 - * Alerts and Policy Violations History (Group)
 - * Alerts and Policy Violations History (Target)
 - Availability History sub-category
 - * Availability History (Group)
 - * Availability History (Target)
 - All reports within the Disabled Policies sub-category
 - Policy Groups sub-category
 - * Compliance Evaluation (Group)
 - * Compliance Evaluation (Target)
 - * Compliance Evaluation Summary
 - * Compliance Trend (Target)
 - * Policy Group Library
 - All reports within the Root Cause Analysis sub-category
 - All reports within the Service Alerts sub-category
 - All reports within the Service Performance and Usage sub-category
 - All reports within the Service Tests sub-category
 - All reports within the Templates sub-category
 - All reports within the Web Application Page Performance sub-category
 - All reports within the Web Application Request Performance sub-category

- All reports within the Web Application Transaction Performance sub-category

My Oracle Support Tab Page

From the **My Oracle Support** tab, the **Patches & Updates** sub-tab is licensable under this pack.

Targets Tab Page

From the Targets page, when you select the Host sub-tab, you access the host information for all of your Oracle middleware hosts. There is a table on the Hosts page.

- In the **Policy Violations** column for each host, the numbers that appear in this column are links, and the links are part of this pack.

Host Sub-tab page

From the Targets page, when you select a host on which Oracle middleware resides, you access the Host Home page. On the Host Home page, several sections are licensed:

- In the **Configuration** section, all links are part of this pack.
- In the **Policy Violations** section, the numbers in this section are links, and the links are part of this pack.
- In the **Security** section, all of the links are part of this pack.
- In the **Critical Patch Advisories** for Oracle Homes section, all of the links are part of this pack.
- In the **Related Links** section, the following links are licensed:
 - The Metric and Policy Settings link goes to the Metrics and Policy Settings page. On the Metric and Policy Settings page, there is a **Policies** link, which is part of this pack.
 - The Reports link goes to the Report Definitions page. The following report links are licensed as part of this pack:
 - * All links under the **Deployment and Configuration** section
 - * All **Alerts and Policy Violations** links under the **Monitoring** section.
 - * All **Disabled Policies** links under the **Monitoring** section.
 - On the Host Home page, click the **Targets** link. On the Targets page, there is a Policy Violations column. The numbers in this column are links, and the links associated with Oracle middleware targets are part of this pack.
 - On the Host Home page, click the **Configuration** link. The entire **Configuration** page is part of this pack.

Middleware Sub-tab Page

From the Middleware sub-tab page — accessed from the Targets tab of the Oracle Enterprise Manager 11g Grid Control Console — the following links (consult the target types table shown earlier to understand which target types' links are licensed) are licensed with this pack:

- Links in the Status column
- Links in the Alerts column
- Links in the Policy Violations column

- Application Dependency and Performance link in the Related Links section at the bottom of the page
- Request Monitoring link in the Related Links section at the bottom of the page.
- JVM Diagnostics link in the Related Links section at the bottom of the page.

JVM Diagnostics Page

From the JVM Diagnostics page, accessed from the Middleware sub-tab of the Oracle Enterprise Manager 11g Grid Control Console, the following links and menu items are licensed with this pack:

- Summary page accessed from the POOL menu

JRockit Mission Control

When Oracle middleware is running on JRockit JVM, JRockit Mission Control is a licensed feature of the WebLogic Server Management Pack Enterprise Edition.

Metric and Policy Settings

From the Metric Details page, there is a Metric and Policy Settings link in the Related Links section. When you click this link, the Metric and Policy Settings page appears, which applies to any target listed in [Oracle Fusion Middleware 11g Targets](#) and [Oracle Application Server 10g Targets](#).

The following items from this page are licensed in this pack:

- Metric Thresholds tab
- Metric Snapshots link

Licensed Links Applicable to WebLogic Server Versions 9 and 10

The following list of links and navigation to them correspond with managing Oracle WebLogic Server versions 9 and 10 in Grid Control 11g, and are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

Oracle Fusion Middleware Farm Target Type

From the Oracle Fusion Middleware Farm Home page, the following links and menu items are licensed with this pack:

- **Create/End Blackout...** page accessed from the Control sub-menu within the Farm menu
- Any links in the **Status** column of the Deployments region
- Any links in the **CPU Usage (%)** and **Status** columns of the Fusion Middleware region

Oracle WebLogic Domain Target Type

From the Oracle WebLogic Domain Home page, the following links and menu items are licensed with this pack:

- **Alert History** and **Blackouts** pages accessed from the Monitoring sub-menu within the WebLogic Domain menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the WebLogic Domain menu
- **Members** page accessed from the WebLogic Domain menu

- **Summary** page accessed from the JVM Diagnostics sub-menu within the WebLogic Domain menu.
- **Policy Enforcement Dashboard**, **Registered Services**, and **Saved Tests** pages accessed from the Web Services sub-menu within the WebLogic Domain menu
- **Save Test** button on the Test Web Service page accessed from the Web Services sub-menu within the WebLogic Domain menu
- Any links in the **Status**, **Active Sessions**, **Request Processing Time (ms)**, and **Bean Accesses (per minute)** columns of the Servers region.
- Any links in the **Status** column of the Deployments region

Oracle WebLogic Cluster Target Type

From the Oracle WebLogic Cluster Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link, or accessed from the General Information sub-menu within the WebLogic Cluster menu
- **Performance Summary**, **Status History**, **Alert History**, and **Blackouts** pages accessed from the Monitoring sub-menu within the WebLogic Cluster menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the WebLogic Cluster menu
- **Members** page accessed from the WebLogic Cluster menu
- **Summary** page accessed from the JVM Diagnostics sub-menu within the WebLogic Cluster menu
- **Request Processing Time (ms)** and **Requests (per minute)** links in the Response and Load region
- Any links in the **Status**, **Active Sessions**, **Request Processing Time (ms)**, and **Bean Accesses (per minute)** columns of the Deployments region
- Any links in the **Status**, **Active Sessions**, **Request Processing Time (ms)**, and **Bean Accesses (per minute)** columns of the Servers region

Oracle WebLogic Server Target Type

From the Oracle WebLogic Server Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link or accessed from the General Information sub-menu within the WebLogic Server menu
- **Performance Summary**, **JVM Performance**, **Resource Performance**, **Status History**, **Alert History**, **Blackouts**, **Policy Violations**, and **Policy Trend Overview** pages accessed from the Monitoring sub-menu within the WebLogic Server menu.
- **Create/End Blackout...** page accessed from the Control sub-menu within the WebLogic Server menu
- **Summary** page accessed from the JVM Diagnostics sub-menu within the WebLogic Server menu
- **Last 24 Hours**, **Last 7 Days**, and **Last 31 Days** views available from the Web Services page accessed from the WebLogic Server menu
- Entire **Configuration** sub-menu accessed within the WebLogic Server menu

- Any links in the **Alerts and Policy Violations**, **EJBs**, **Servlets and JSPs**, **JDBC and JTA Usage**, **JMS**, and **Work Manager** sections
- **Availability**, **CPU Usage (%)**, and **Heap Usage (MB)** links in the General section
- **Request Processing Time (ms)** and **Requests (per minute)** links in the Response and Load region
- Any links in the **Status**, **Dependency**, **Active Sessions**, **Request Processing Time (ms)**, and **Bean Accesses (per minute)** columns in the Application Deployments table of the Deployments region
- Any links in the **Dependency**, **Requests Processed**, **Average Client Processing Time (ms)**, **Requests (per minute)**, and **Total Client Processing time (ms)** columns in the Servlets and JSPs table of the Most Requested region
- Any links in the **Dependency** column in the Oracle Infrastructure Web Services table of the Most Requested region

Clustered Application Deployment Target Type

From the Clustered Application Deployment Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link or accessed from the General Information sub-menu within the Clustered Application Deployment menu
- **Performance Summary**, **Status History**, **Alert History**, and **Blackouts** pages accessed from the Monitoring sub-menu within the Clustered Application Deployment menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the Clustered Application Deployment menu
- **Availability (%)** link in the General section
- Any links in the **Alerts and Policy Violations**, **EJBs**, **Servlets and JSPs**, and **Work Manager** sections
- **Request Processing Time (ms)** and **Requests (per minute)** links in the Response and Load region
- Any links in the **Status**, **Active Sessions**, **Request Processing Time (ms)**, and **Requests (per minute)** in the Deployments region

Application Deployment Target Type

From the Application Deployment Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link, or accessed from the General Information sub-menu within the Application Deployment menu.
- **Performance Summary**, **Application Dependency** and **Performance**, **Status History**, **Alert History**, **Blackouts**, **Policy Violations**, and **Policy Trend Overview** pages accessed from the Monitoring sub-menu within the Application Deployment menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the Application Deployment menu
- **All**, **Day**, and **2 hours** views available from the ADF Performance page accessed from the Application Deployment menu

- Any links in the **Alerts and Policy Violations**, **EJBs**, **Servlets and JSPs**, and **Work Manager** sections
- **Availability (%)** link in the General section
- **Request Processing Time (ms)** and **Requests (per minute)** links in the Response and Load region
- Any links in the **Dependency**, **Requests Processed**, **Average Client Processing Time (ms)**, **Requests (per minute)**, and **Total Client Processing time (ms)** columns in the Servlets and JSPs table of the Most Requested region

User Messaging Service Target Type

From the User Messaging Service Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link, or accessed from the General Information sub-menu within the User Messaging Service menu
- **Performance Summary**, **Status History**, **Alert History**, **Blackouts**, **Policy Violations**, and **Policy Trend Overview** pages accessed from the Monitoring sub-menu within the User Messaging Service menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the User Messaging Service menu
- Any links in the **Statistics** and **Alerts and Policy Violations** sections

User Messaging Email Driver Target Type

From the User Messaging Service Email Driver page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link, or accessed from the General Information submenu within the User Messaging Email Driver menu.
- **Performance Summary**, **Status History**, **Alert History**, **Blackouts**, **Policy Violations**, and **Policy Trend Overview** pages accessed from the Monitoring sub-menu within the User Messaging Email Driver menu
- **Create/End Blackout...** page accessed from the Control submenu within the User Messaging Email Driver menu.
- Any links in the **Statistics** and **Alerts and Policy Violations** sections
- **Sending Latency (ms)** and **Receiving Latency (ms)** links in the Message Latency region

Oracle HTTP Server Target Type

From the Oracle HTTP Server Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link or accessed from the General Information submenu within the Oracle HTTP Server menu
- **Status History**, **Alert History**, **Blackouts**, **Policy Violations**, **Policy Trend Overview**, and **Performance Summary** pages accessed from the Monitoring sub-menu within the Oracle HTTP Server menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the Oracle HTTP Server menu

- Any links accessible from the Configuration sub-menu within the Oracle HTTP Server menu
- **Metric and Policy Settings** page accessed from the Target Setup sub-menu within the Oracle HTTP Server menu
- **All, Day, and 2 hours** views available from the Performance Summary page accessed from the Monitoring sub-menu within the Oracle HTTP Server menu
- Any links in the **Alerts and Policy Violations, Response and Load, Module Request Statistics, and CPU and Memory Usage** regions of the Oracle HTTP Server Home page
- **Request Throughput** and **Response Size (KB)** links in the Virtual Hosts region of the Oracle HTTP Server Home page

Oracle Web Cache Target Type

From the Oracle Web Cache Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link, or accessed from the General Information sub-menu within the Oracle Web Cache menu
 - **Status History, Alert History, Blackouts, Policy Violations, Policy Trend Overview, and Performance Summary** pages accessed from the Monitoring sub-menu within the Oracle Web Cache menu
 - **Create/End Blackout...** page accessed from the Control sub-menu within the Oracle Web Cache menu
 - **Any links** accessible from the **Configuration** sub-menu within the Oracle Web Cache menu
 - **Metric and Policy Settings** page accessed from the Target Setup submenu within the Oracle Web Cache menu
 - **All, Day, and 2 hours** views available from the Performance Summary page accessed from the Monitoring sub-menu within the Oracle Web Cache menu
- Any links in the **Alerts and Policy Violations, Response and Load, Performance, Origin Servers, and CPU and Memory Usage** regions of the Oracle Web Cache Home page.

Oracle Forms Target Type

From the Oracle Forms Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link, or accessed from the General Information sub-menu within the Oracle Forms menu
- **Performance Summary, Status History, Alert History, Blackouts, Policy Violations, and Policy Trend Overview** pages accessed from the Monitoring sub-menu within the User Messaging Email Driver menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the Oracle Forms menu
- **Metric and Policy Settings** page accessed from the Target Setup sub-menu within the Oracle Forms menu
- **All, Day, and 2 hours** views available from the Performance Summary page accessed from the Monitoring sub-menu within the Oracle Forms menu

- Any links in the **Forms Deployment, Response and Load**, and **Alerts and Policy Violations** regions of the Oracle Forms Home page

Oracle Reports Bridge Target Type

From the Oracle Reports Bridge Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link, or accessed from the General Information sub-menu within the Oracle Reports Bridge menu
- **Status History, Alert History, Blackouts, Policy Violations, and Policy Trend Overview** pages accessed from the Monitoring sub-menu within the Oracle Reports Bridge menu
- **Status History, Alert History, Blackouts, Policy Violations, and Policy Trend Overview** pages accessed from the Monitoring submenu within the Oracle Reports Bridge menu
- **Metric and Policy Settings** page accessed from the Target Setup sub-menu within the Oracle Reports Bridge menu
- Any links in the **CPU and Memory Utilization** region of the Oracle Reports Bridge Home page

Oracle Reports Application Target Type

From the Oracle Reports Application Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link, or accessed from the General Information sub-menu within the Oracle Reports Application menu
- **Performance Summary, Status History, Alert History, Blackouts, Policy Violations, and Policy Trend Overview** pages accessed from the Monitoring sub-menu within the Oracle Reports Application menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the Oracle Reports Application menu
- **Metric and Policy Settings** page accessed from the Target Setup sub-menu within the Oracle Reports Application menu
- **All, Day, and 2 hours** views available from the Performance Summary page accessed from the Monitoring submenu within the Oracle Reports Application menu
- Any links in the **Alerts and Policy Violations**, and **Response and Load** regions of the Oracle Reports Application Home page

Oracle Reports Tools Target Type

From the Oracle Reports Tools Home page, the following links and menu items are licensed with this pack:

- **Alert History, Blackouts, Policy Violations, and Policy Trend Overview** pages accessed from the Monitoring sub-menu within the Oracle Reports Tools menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the Oracle Reports Tools menu
- **Metric and Policy Settings** page accessed from the Target Setup sub-menu within the Oracle Reports Tools menu

Oracle Reports Server Target Type

From the Oracle Reports Server Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link, or accessed from the General Information sub-menu within the Oracle Reports Server menu
- **Status History, Alert History, Blackouts, Policy Violations, Policy Trend Overview, and Performance Summary** pages accessed from the Monitoring sub-menu within the Oracle Reports Server menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the Oracle Reports Server menu
- **Metric and Policy Settings** page accessed from the Target Setup sub-menu within the Oracle Reports Server menu
- **All, Day, and 2 hours** views available from the Performance Summary page accessed from the Monitoring sub-menu within the Oracle Reports Server menu
- Any links in the **Alerts and Policy Violations**, and **Response and Load** regions of the Oracle Reports Server Home page

Discoverer Target Type

From the Discoverer Home page, the following links and menu items are licensed with this pack:

- **Availability** link accessed from the General Information icon link, or accessed from the General Information sub-menu within the Discoverer menu
- **Performance Summary, Status History, Alert History, Blackouts, Policy Violations, and Policy Trend Overview** pages accessed from the Monitoring sub-menu within the Discoverer menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the Discoverer menu
- Any links in the **Alerts and Policy Violations** region
- **Memory Usage (MB)** link in the Memory Usage region
- Any links in the **Components** region

Portal Target Type

From the Portal Home page, the following links and menu items are licensed with this pack:

- **Performance Summary, Performance Metrics, Historical Performance Metrics, Status History, Alert History, Blackouts, Policy Violations, and Policy Trend Overview** pages accessed from the Monitoring sub-menu within the Portal menu
- **Create/End Blackout...** page accessed from the Control sub-menu within the Portal menu
- Any links in the **Alerts and Policy Violations** section of the Summary region
- **Page Engine-Average Page Processing Time (ms)** and **Page Engine-Pages (per minute)** links in the Page Response Time region
- **More Info...** link in the Page Response Code Statistics (last 24 hours) region and any links accessible from its page

Systems Sub-tab Page

From the Targets page, when you select the **Systems** sub-tab, you can access information such as name, type, and alerts for all of your systems.

- On the Host page, there is a **Policy Violations** column for each host. The numbers in this column are links, and the links for hosts on which Oracle middleware resides are part of this pack.

Systems Target

You can access the systems target home pages from the Systems sub-tab of the Targets tab. From the Systems page, select the system target by clicking on its name. The system target home page will be displayed.

- On the Home page, several sections are licensed:
 - All of the links related to Oracle middleware and its underlying host in the **Configuration Changes** section are licensed as part of this pack.
 - All of the links related to Oracle middleware and its underlying host in the **Policy Violation** section are licensed as part of this pack.
 - All of the links related to Oracle middleware and its underlying host in the **Security Policy Violations** section are licensed as part of this pack
 - All of the links related to Oracle middleware in the **Critical Patch Advisories** section are licensed as part of this pack.
 - In the Related Links section, click the **Reports** link. The following report links on the Report Definitions page are licensed as part of this pack:
 - * All **Alerts and Policy Violations** links related to Oracle middleware and its underlying host under the **Monitoring** section
 - * All **Disabled Policy** links related to Oracle middleware and its underlying host under the **Monitoring** section
 - On the Home page, click the **Components** sub-tab.
 - * All of the links related to Oracle middleware and its underlying host in the **Policy Violation** section are licensed as part of this pack.
 - On the Home page, click the Topology sub-tab.
 - * When you select a target on the page, the details for the target are shown in the Selection Details section. The **Policy Violations** link related to Oracle middleware and its underlying host in the Selection Details and Summary sections are licensed as part of this pack.
 - On the Home page, Administration page, Components page, Charts page, and Topology page, there is a Launch Dashboard button.
 - * All of the links related to Oracle middleware and its underlying host in the **Policy Violations** column are part of this pack.

Groups Sub-tab Page

You can access the Groups sub-tab from the Targets tab.

- All of the links related to Oracle middleware and its underlying host in the **Policy Violations** column are part of this pack.

Oracle WebLogic Domain Group Target Type

- Any links, pages, and menus accessible from the Oracle WebLogic Domain Group Home page are licensed with this pack.

Group Target Type

You can access the groups target home pages from the Groups sub-tab of the Targets tab. From the Groups page, select the **groups target** by clicking on its name. The groups target home page appears.

- On the Home page, several sections are licensed:
 - All of the links related to Oracle middleware in the **Configuration Changes** section are licensed as part of this pack.
 - All of the links related to Oracle middleware in the **Security Policy Violations** section are licensed as part of this pack.
 - All of the links related to Oracle middleware in the **Critical Patch Advisories** for Oracle Homes section are licensed as part of this pack.
 - In the Related Links section, click the **Reports** link. The following report links on the **Report Definitions** page are licensed as part of this pack:
 - * All **Alerts and Policy Violations** links related to Oracle middleware under the **Monitoring** section.
 - * All **Disabled Policies** links related to Oracle middleware under the **Monitoring** section.
 - On the Home page, click the **Administration** link.
 - * All of the links related to Oracle middleware in the **Deployments** section are licensed as part of this pack.
 - * All of the links related to Oracle middleware in the **Configuration Searches** section are licensed as part of this pack.
 - On the Home page, click the **Members** link.
 - * All of the links related to Oracle middleware in the **Policy Violation** section are licensed as part of this pack.

Licensed Links Applicable to Other Target Types

The following list of links and navigation to them correspond with managing Oracle WebLogic Server in Grid Control 11g and are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

Web Application Target Types

- From the Enterprise Manager Home page:
 - Select the **Targets** tab, then the **Web Applications** sub-tab. Click any **Web Application Name** in the table. On the Web Application page that appears, the **Page Performance** tab is a licensed feature of the WebLogic Server Management Pack Enterprise Edition.
 - Click the **Page Performance** tab. All links, buttons, and drill-downs on the **Page Performance** page are licensed features of the WebLogic Server Management Pack Enterprise Edition.
 - From the Page Performance page, the following Related Links are also part of the WebLogic Server Management Pack Enterprise Edition:

- * **Advanced Analysis**
- * **Alert History**
- * **Blackouts**
- * **Metric Baselines**
- From the Web Application page linked from the Targets page:
 - Click the **Request Performance** tab. All links, buttons, and drilldowns on the **Request Performance** page are licensed features of the WebLogic Server Management Pack Enterprise Edition.
 - From the Request Performance page, the following Related Links are also part of the WebLogic Server Management Pack Enterprise Edition:
 - * **OC4J Performance**
 - * **Alert History**
 - * **Blackouts**
 - * **Metric Baselines**
- From the Web Application page linked from the Targets page:
 - Click the **Monitoring Configuration** tab. All four links in the Web Application Tasks section are licensed features of the WebLogic Server Management Pack Enterprise Edition.
 - From the Monitoring Configuration page, the following Related Links are also part of the WebLogic Server Management Pack Enterprise Edition:
 - * **Alert History**
 - * **Blackouts**
 - * **Metric Baselines**
- From the Web Application page linked from the Targets page:
 - Click the **Test Performance** tab, then click any test in the table. On the resulting Web Transaction home page, the **Play with Trace** button is a licensed feature of the WebLogic Server Management Pack Enterprise Edition.
 - From the System sub-tab, there is a Component Summary. **All of the links related to Oracle m and its underlying host** in the Policy Violation column are part of this pack.
 - From the Topology sub-tab, there is a Selection Details section. The **Policy Violation** link related to **Oracle m and its underlying host** is part of this pack.

Services Target Types

- From the Enterprise Manager Home page:
 - Select the **Targets** tab, then the **Services** sub-tab. Click any **Forms Application Name** in the table. On the resulting Forms Application page, the **Page Performance** tab is a licensed feature of the WebLogic Server Management Pack Enterprise Edition.
 - Click the **Page Performance** tab. All links, buttons, and drilldowns on the **Page Performance** page are licensed features of the WebLogic Server Management Pack Enterprise Edition.

- From the Page Performance page, the following Related Links are also part of the WebLogic Server Management Pack Enterprise Edition:
 - * **Advanced Analysis**
 - * **Alert History**
 - * **Blackouts**
 - * **Metric Baselines**
- From the Forms Application page linked from the Targets page:
 - Click the **Monitoring Configuration** tab. The following links in the Forms Application Tasks section are licensed features of the WebLogic Server Management Pack Enterprise Edition:
 - * **Manage Watch Lists**
 - * **Manage Regions**
 - * **Manage Web Server Data Collection**

Generic Services Target

You can access Generic Services target home pages from the Services sub-tab of the Targets tab. To locate a generic service, click the **Type** column heading to sort the column, and scroll to a generic service. Click the **generic service name** to go to its Home page.

- From the System sub-tab, there is a Component Summary. **All of the links related to Oracle middleware and its underlying host in the Policy Violations column** are part of this pack.
- From the Topology sub-tab, there is a Selection Details section. The **Policy Violations** link related to **Oracle middleware and its underlying host** is part of this pack.

Aggregate Services Target

You can access Aggregate Services target home pages from the Services sub-tab of the Targets tab. To locate an aggregate service, click the **Type** column heading to sort the column, and scroll to an aggregate service. Click the **aggregate service name** to go to its Home page.

- From the System sub-tab, there is a Component Summary. **All links related to Oracle middleware and its underlying host in the Policy Violations column** are part of this pack.
- From the Topology sub-tab, there is a Selection Details section. The **Policy Violations** link related to **Oracle middleware and its underlying host** is part of this pack.

Licensed Links Applicable to WebLogic Server Version 7 and 8

The following list of links and navigation to them correspond with managing Oracle WebLogic Server version 7 and 8 in Grid Control 11g and are licensed as part of the WebLogic Server Management Pack Enterprise Edition.

Oracle WebLogic Server Domain Target

You can access the Oracle WebLogic Server Domain Home page from the Middleware sub-tab under the Targets tab. From the Middleware page, select the Oracle WebLogic Server Domain by clicking on its name.

On the Oracle WebLogic Server Domain Home page, several sections are licensed:

- All of the links in the **Policy Violations** section are licensed as part of this pack.
- In the Related Links section, select the **Reports** link.
 - Links to reports related to Oracle WebLogic Server in the **Alerts and Policy Violations**, **Disabled Policies**, and **Policy Group** sections are licensed as part of this pack.
- The Members property page is accessible from the Home page.
 - All of the links in the **Policy Violations** column are licensed as part of this pack.

Oracle WebLogic Server Cluster Target

You can access the Oracle WebLogic Server Cluster Home page from the Middleware sub-tab under the Targets tab. From the Middleware page, click on the name of an Oracle WebLogic Server Cluster.

On the Oracle WebLogic Server Cluster Home page, several sections are licensed:

- All of the links in the **Policy Violations** section are licensed as part of this pack.
- In the Related Links section, select the **Reports** link.
 - Links to reports related to Oracle WebLogic Server in the **Alerts and Policy Violations**, **Disabled Policies**, and **Policy Group** sections are licensed as part of this pack.
- The Members property page is accessible from the Home page.
 - All of the links in the **Policy Violations** column are licensed as part of this pack.

Oracle WebLogic Server Managed Server Target

You can access the Oracle WebLogic Managed Server Home page from the Middleware sub-tab under the Targets tab. From the Middleware page, click the name of the **Oracle WebLogic Managed Server**. The Oracle WebLogic Managed Server Home page appears.

On the Oracle WebLogic Managed Server Home page, several sections are licensed:

- All of the links in the **Policy Violations** section are licensed as part of this pack.
- In the Related Links section, select the **Reports** link.
 - Links to reports related to Oracle WebLogic Server in the **Alerts and Policy Violations**, **Disabled Policies**, and **Policy Group** sections are part of this pack.
- Select **Metric and Policy Settings**. The resultant **Policies** tab is licensed as part of this pack.
- The Administration property page is accessible from the Home page.
 - The **entire page** is licensed as part of this pack.
- From the Oracle WebLogic Managed Server Home page, click the **Performance** tab. All of the links in the Performance Links section of the Oracle WebLogic Managed Server Performance page are licensed features of the Diagnostics Pack for Oracle Middleware.

Licensed Links Applicable to Service Level Management

See "[Enterprise Manager Grid Control Service Level Management Licensed Links](#)" in [Chapter 8, "User Experience Management"](#).

Licensed Links Applicable to Coherence Management

See "[Licensed Links](#)" for the Coherence Management links.

Provisioning and Patch Automation Related Links

The following provisioning and patch automation related links are licensable with the WebLogic Server Management Pack Enterprise Edition, and should not be accessible if the WebLogic Server Management Pack Enterprise Edition has not been licensed and enabled.

Setup Page

- Click the **Setup** link in the upper right corner of the Enterprise Manager Grid Control console. In the Overview of Setup page that appears, the **Patching Setup** link is licensed as part of this pack.
- Click the **Setup** link in the upper right corner of the page. On the Overview of Setup page, click the **Agents** sub-tab. From the Agents page, click an agent to display the Agent Home page. The **Dell Change Automation** selection from the Add drop-down menu under the Monitored Targets section is a licensed feature of this pack.

Console Home Page

- Select any of the links in the Security Policy Violations section. On the Violations page that appears, the **Security at a Glance** sub-tab is licensed as part of this pack.
- Links in the **Critical Patch Advisories for Oracle Homes** section are licensed as part of this pack.
- Click the **Targets** tab, then **All Targets**. On the All Targets page, click the **Dell Change Automation** link. All links and features available on or linked to from the Dell Change Automation page are licensed as part of this pack.

Deployments Tab

- Links in the **Critical Patch Advisories for Oracle Homes** section are licensed as part of this pack.
- Select the **Patching through Deployment Procedures** link in the Patching section. On the Deployment Procedure Manager page that appears, the following procedure link and affiliated actions (that is, View, Schedule Deployment, Edit, Create Like, Revert, and Delete) are licensed as part of this pack:
 - **Patch Application Server**
- Select the **View/Upload Patch** link in the Patching section. On the Patch Cache page that appears, any Application Server-related patch link and affiliated actions (that is, View Details, View Readme, Patch, and Remove) are licensed as part of this pack.
- The **Patch Linux Hosts** link in the Patching section is licensed as part of this pack.
- Select the **Clone Oracle Home** link in the Cloning section. On the Clone Oracle Home wizard that appears, cloning any application server target from an installed Oracle Home or from the Software Library is licensed as part of this pack.

- Select the **Deployment Procedures** link in the Deployment Procedure Manager section. On the Deployment Procedure Manager page that appears, the following procedure links and affiliated actions (that is, View, Schedule Deployment, Edit, Create Like, Revert, and Delete) are licensed as part of this pack:
 - Fusion Middleware Provisioning
 - Fusion Middleware Domain Scale Up
 - Application Server Deployment (myJ2EE) 10.1.2.0.2
 - Application Server Deployment 10.1.3
 - Application Server Deployment 10.1.3.xSOA
 - Patch Application Server
 - Forms and Reports Provisioning
- The **Application Server Provisioning Procedures** link is licensed as part of this pack.
- Select the **Patch Procedures** link in the Deployment Procedure Manager section. On the Deployment Procedure Manager page that appears, the following procedure link and affiliated actions (that is, View, Schedule Deployment, Edit, Create Like, Revert, and Delete) are licensed as part of this pack:
 - **Patch Application Server**
- Select the **Provisioning** sub-tab. On the Provisioning page that appears, any links associated with application server targets or the hosts on which application server targets reside are licensed as part of this pack.

Compliance Tab

- The **Security at a Glance** link is licensed as part of this pack.

Host Home Page (for hosts on which the application server resides)

- Links in the **Critical Patch Advisories for Oracle Homes** section are licensed as part of this pack.
- The **Security at a Glance** link is licensed as part of this pack.

Group Home Page

- The **Security at a Glance** link is licensed as part of this pack.
- The links in the **Critical Patch Advisories for Oracle Homes** section are licensed as part of this pack.

Other Pages

- Select the **Targets** tab, then the **Systems** sub-tab. The Systems Home page appears. The following link is licensed as part of this pack:
 - **Security at a Glance**

Licensed Links Applicable to Business Transaction Management

From the Oracle Business Transaction Management Administrative Console:

- Select the **MyView** Menu.
All navigation tree nodes as well as all tabbed pane links and data available on this page are licensed features.

- Select the **Dashboards** menu.
All navigation tree nodes as well as all tabbed pane links and data available on this page are licensed features.
- Select the **Maps** menu.
All navigation tree nodes as well as all tabbed pane links and data available on this page are licensed features.
- Select the **Usage** menu.
All navigation tree nodes as well as all tabbed pane links and data available on this page are licensed features.
- Select the **Policies** menu.
All navigation tree nodes as well as all tabbed pane links and data available on this page are licensed features.
- Select the **Alerts** menu.
All navigation tree nodes as well as all tabbed pane links and data available on this page are licensed features.
- Select the **Administration** menu.
All navigation tree nodes as well as all tabbed pane links and data available on this page are licensed features.

Licensed Links Applicable to Oracle Application Server 10g

Oracle Application Server Home Page

- The **Patch** link in the Related Links section is licensed as part of this pack.

Oracle Application Server Administration Page

- All links in the Deployments section are licensed as part of this pack.

Oracle Application Server Target Types

- From the Middleware sub-tab, click an **Oracle Application Server Cluster** link. The **Metrics** link in the Oracle Application Server Cluster Home page is a licensed feature of this pack.
- From the Middleware sub-tab, click an **Oracle Middleware** link. The following links in the **Oracle Application Server Home** page are licensed features of this pack:
 - **Availability** in the **General** section
 - **Alert History** and notifications functionality in the **Related Links** section
 - **All Metrics** in the **Related Links** section
 - **Blackouts** in the **Related Links** section
- From the Oracle Application Server home page, click the **Performance** tab. All of the links in the **Performance Links** section of the **Application Server Performance** page are licensed features of this pack.
- From the Application Server page, click an **OC4J** link. The following links in the OC4J Home page are licensed features of this pack:
 - **Availability** in the **General** section

- **Alert History and notifications functionality** in the Related Links section
- **All Metrics** in the Related Links section
- **Blackouts** in the Related Links section
- From the OC4J Home page, click the **Performance** tab. All of the links in the **Performance Links** section of the OC4J Performance page are licensed features of this pack.
- From the Application Server page, click an **Oracle HTTP Server** link. The following links in the HTTP Server Home page are licensed features of this pack:
 - **Availability** in the General section
 - **Alert History and notifications functionality** in the Related Links section
 - **All Metrics** in the Related Links section
 - **Blackouts** in the Related Links section
- From the HTTP Server Home page, click the **Server Performance** tab. All of the links in the **Performance Links** section of the HTTP Server Performance page are licensed features of this pack.
- From the HTTP Server Home page, click the **Virtual Host Performance** tab. This tab is a licensed feature of this pack.
- From the Application Server page, click a **Web Cache** link. The following links in the Web Cache Home page are licensed features of this pack:
 - **Availability** in the General section
 - **Alert History and notifications functionality** in the Related Links section
 - **All Metrics** in the Related Links section
 - **Blackouts** in the Related Links section
- From the Web Cache Home page, click the **Performance** tab. All of the links in the **Performance Links** section of the Web Cache Performance page are licensed features of this pack.

Application Server Instance Page

From the Middleware page, you can access information for each Oracle Application Server by clicking the link for an Oracle Application Server.

- The Application Server Instance Home page is the first page.
 - In the General section, the link to the **Oracle home** is licensed as part of this pack.
 - In the Related Links section, click the **Metric and Policy Settings** link. On the Metric and Policy Settings page, the **Policies** link is licensed as part of this pack.
 - In the Related Links section, click the **Reports** link. The following report links on the Report Definitions are licensed as part of this pack:
 - * All **Alerts and Policy Violations** links under the **Monitoring** section.
 - * All **Disabled Policies** links under the **Monitoring** section.
- On the Application Server Instance Home page, click the **Administration** sub-tab.
 - All of the links in the **Configuration** section are part of this pack.

- **All of the links** in the **Configuration Searches** section are part of this pack.
- On the Application Server Instance Home page, click the **Topology** sub-tab.
 - When you select a target on the page, the details for the target are shown in the Selection Details section. The **Policy Violations** link in the **Selection Details** section is part of this pack.

Oracle HTTP Server Pages

From the Middleware page, you can access Oracle HTTP Server information by expanding the server name list and clicking the link for an **Oracle HTTP Server** instance.

- On the Oracle HTTP Server Home page, several sections are licensed:
 - In the General section, the link to the **Oracle home** is licensed as part of this pack.
 - In the Policy Violation section, **all of the Policy Violation** links are licensed as part of this pack.
 - In the Security section, all of the **Security** links are licensed as part of this pack.
 - In the Related Links section, click the **Metric and Policy Settings** link. On the Metric and Policy Settings page, the **Policies** link is licensed as part of this pack.
 - In the Related Links section, click the **Reports** link. The following report links on the Report Definitions page are licensed as part of this pack:
 - * **All Alerts and Policy Violations** links under the **Monitoring** section.
 - * **All Disabled Policies** links under the **Monitoring** section.
 - On the Oracle HTTP Server Home page, there is an Administration sub-tab.
 - * **All of the links** in the **Configuration** section are part of this pack.
 - * **All of the links** in the **Configuration Searches** section are part of this pack.

Web Cache Target

From the Middleware page, you can access Oracle Web Cache information by expanding the server name list and clicking the link for a Web Cache instance.

- On the Oracle Web Cache Home page, several sections are licensed:
 - In the General section, the link for the **Oracle home** is licensed as part of this pack.
 - In the Policy Violations section, **all of the Policy Violation links** are licensed as part of this pack.
 - In the Security section, **all of the Security links** are licensed as part of this pack.
 - In the Related Links section, click the **Metric and Policy Settings** link. On the Metric and Policy Settings page, the **Policies** link is licensed as part of this pack.
 - In the Related Links section, click the **Reports** link. The following report links on the Report Definitions page are licensed as part of this pack:
 - * **All Alerts and Policy Violations** links under the **Monitoring** section

- * **All Disabled Policies** links under the **Monitoring** section
- On the Oracle Web Cache page, click the **Administration** link.
- * **All of the links in the Configuration** section are part of this pack.
- * **All of the links in the Configuration Searches** section are part of this pack.

OC4J Target

From the Middleware page, you can access OC4J information by expanding the server name list and clicking the link for an OC4J instance.

- On the OC4J page, several sections are licensed:
 - In the General section, the link to the **Oracle home** is licensed as part of this pack.
 - In the Policy Violation section, **all of the Policy Violation links** are licensed as part of this pack.
 - In the Security section, **all of the Security links** are licensed as part of this pack.
 - In the Related Links section, click the **Metric and Policy Settings** link. On the Metric and Policy Settings page, the **Policies** link is licensed as part of this pack.
 - In the Related Links section, click the **Reports** link. The following report links on the Report Definitions page are licensed as part of this pack:
 - * **All Alerts and Policy Violations** links under the **Monitoring** section.
 - * **All Disabled Policies** links under the **Monitoring** section.
 - On the OC4J page, click the **Administration** link.
 - * **All of the links in the Configuration** section are part of this pack.
 - * **All of the links in the Configuration Searches** section are part of this pack.

Other Oracle Application Server 10g Components

From the Middleware sub-tab, you can access 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:

- In the General section, if a link to the Oracle home exists, the link is part of this pack.
- In the Related Links section, there is a Metric and Policy Settings link. On the Metric and Policy Settings page, there is a **Policies** link, which is part of this pack.
- In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of this pack:
 - **All Alerts and Policy Violations** links under the **Monitoring** section
 - **All Disabled Policies** links under the **Monitoring** section
- On the OracleAS Integration B2B Home page, several sections are licensed:

- In the Related Links section, there is a Metric and Policy Settings link. On the Metric and Policy Settings page, there is a **Policies** link, which is part of this pack.
- In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of this pack:
 - * **All Alerts and Policy Violations links** under the **Monitoring** section
 - * **All Disabled Policies links** under the **Monitoring** section
- On the Oracle Workflow Home page, several sections are licensed:
 - In the Related Links section, there is a Metric and Policy Settings link. On the Metric and Policy Settings page, there is a **Policies** link, which is part of this pack.
 - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of this pack:
 - * **All Alerts and Policy Violations links** under the **Monitoring** section
 - * **All Disabled Policies links** under the **Monitoring** section
- On the Oracle CMSDK Home page, several sections are licensed:
 - In the Related Links section, there is a Metric and Policy Settings link. On the Metric and Policy Settings page, there is a **Policies** link, which is part of this pack.
 - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of this pack:
 - * **All Alerts and Policy Violations links** under the **Monitoring** section
 - * **All Disabled Policies links** under the **Monitoring** section

Oracle Application Server Farm Pages

From the Middleware page, you can access Oracle Application Server Farm information by selecting a farm.

- On the Oracle Application Server Farm Home page, several sections are licensed.
 - In the Policy Violation section, **all of the Policy Violation** are part of this pack.
 - In the Configuration Changes section, **all of the Changes links** are part of this pack.
 - In the Security Policy Violations section, **all of the Security Policy Violations links** are part of this pack.
 - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of this pack:
 - * **All Alerts and Policy Violations links** under the **Monitoring** section
 - * **All Disabled Policies links** under the **Monitoring** section
- On the Oracle Application Server Farm, there is an Administration sub-tab.
 - **All of the links in the Deployments section** are part of this pack.
 - **All of the links in the Configuration Searches** section are part of this pack.
- On the Oracle Application Server Farm page, there is an Members sub-tab.
 - **All of the links in the Policy Violations** section are part of this pack.

- On the Oracle Application Server Farm page, there is a Topology sub-tab.
 - When you select a target on the page, the details for the target are shown in the Selection Details section. The **Policy Violations** link in the **Selection Details** section is part of this pack.
- On the Oracle Application Server Farm page, Metrics page, Administration page, and Members page, there is a Launch Dashboard button.
 - **All of the links** in the **Policy Violations** column are part of this pack.

Oracle Application Server Cluster Pages

From the Middleware page, you can access Oracle Application Server Cluster and Oracle Application Server DCM-managed clusters information by selecting a cluster. On the Oracle Application Server Farm page, there is a Topology sub-tab. When you select a target on the page, the details for the target are shown in the Selection Details section. The **Policy Violations** link in the **Selection Details** section is part of this pack.

- On the Oracle Application Server Cluster Home page, several sections are licensed:
 - In the Policy Violation section, **all of the Policy Violation links** are part of this pack.
 - In the Configuration Changes section, **all of the Changes links** are part of this pack.
 - In the Security Policy Violations section, **all of the Security Policy Violations links** are part of this pack.
 - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of this pack:
 - * **All Alerts and Policy Violations links** under the **Monitoring** section.
 - * **All Disabled Policies links** under the **Monitoring** section.
- On the Oracle Application Server Cluster Home page, there is an Administration sub-tab.
 - **All of the links** in the **Deployments** section are part of this pack.
 - **All of the links** in the **Configuration Searches** section are part of this pack.
- On the Oracle Application Server Cluster Home page, there is an Members sub-tab.
 - **All of the links** in the **Policy Violations** section are part of this pack.
- On the Oracle Application Server Cluster Home page, there is a Topology sub-tab.
 - When you select a target on the page, the details for the target are shown in the Selection Details section. The **Policy Violations** link in the **Selection Details** section is part of this pack.
- On the Oracle Application Server Cluster Home page, J2EE Applications page, Metrics page, Administration page, and Members page, there is a Launch Dashboard button.
 - **All of the links** in the **Policy Violations** column are part of this pack.

HTTP Server HA Group

You can access HTTP Server HA Group pages from the All Targets sub-tab. To display the available HTTP Server HA Group, select **HTTP Server HA Group** from the Search

list, then click **Go**. Select a HTTP Server HA Group from the search results to display its Home page.

- On the HTTP Server HA Group Home page, several sections are licensed:
 - In the Configuration Changes section, **all of the Configuration Changes links** are part of this pack.
 - In the Policy Violation section, **all of the Policy Violation links** are part of this pack.
 - In the Security Policy Violation section, **all of the Security Policy Violation links** are part of this pack.
 - In the Critical Patch Advisories for Oracle Homes section, **all of the Critical Patch Advisories for Oracle Homes links** are part of this pack.
 - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of this pack:
 - * All **Alerts and Policy Violations** links under the **Monitoring** section
 - * All **Disabled Policies** links under the **Monitoring** section
- On the HTTP Server HA Group Home page, there is an Administration sub-tab.
 - **All of the links** in the **Deployments** section are part of this pack.
 - **All of the links** in the **Configuration** section are part of this pack.
- On the HTTP Server HA Group Home page, there is a Members sub-tab.
 - **All of the links** in the **Policy Violation** section are part of this pack.
- On the HTTP Server HA Group Home page, Administration page, Charts page, and Members page, there is a Launch Dashboard button.
 - **All of the links** in the **Policy Violations** column are part of this pack.

OC4J HA Group

You can access OC4J HA Group pages from the All Targets sub-tab. To display the available OC4J HA Group, select **OC4J HA Group** from the Search list, then click **Go**. Select an OC4J HA Group from the search results to display its Home page.

- On the OC4J HA Group Home page, several sections are licensed:
 - In the Configuration Changes section, **all of the Configuration Changes links** are part of this pack.
 - In the Policy Violation section, **all of the Policy Violation links** are part of this pack.
 - In the Security Policy Violation section, **all of the Security Policy Violation links** are part of this pack.
 - In the Critical Patch Advisories for Oracle Homes section, **all of the Critical Patch Advisories for Oracle Homes links** are part of this pack.
 - In the Related Links section, the **Reports** link goes to the Report Definitions page. The following report links are licensed as part of this pack:
 - * All **Alerts and Policy Violations** links under the **Monitoring** section
 - * All **Disabled Policies** links under the **Monitoring** section
- On the OC4J HA Group Home page, there is an Administration sub-tab.

- All of the links in the **Deployments** section are part of this pack.
- All of the links in the **Configuration** section are part of this pack.
- On the OC4J HA Group Home page, there is a **Members** sub-tab.
 - All of the links in the **Policy Violation** section are part of this pack.
- On the OC4J HA Group Home page, Administration page, Charts page, and Members page, there is a Launch Dashboard button. **All of the links in the Policy Violations column** are part of this pack.

Configuration Change Console Restricted-use Licensing

The Configuration Change Console Server includes restricted-use licenses for Oracle Database (Enterprise Edition), Oracle WebLogic, and Oracle Business Intelligence solely for the purpose of running the Configuration Change Console Release Server.

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

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

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

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

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

Oracle includes restricted-use licenses for Oracle Business Intelligence with the Configuration Change Console. If you want to use Oracle Business Intelligence not solely for the purpose of reporting on the data within the Configuration Change Console Server, you must purchase full-use licenses for Oracle Business Intelligence. You can use the restricted-use license to:

- Utilize out-of-box reports shipped with the Configuration Change Console.
- Modify out-of-box report visualization and layouts.
- Add additional data to reports with the Configuration Change Console repository as the sole source of additional data.
- Create new reports with the Configuration Change Console repository as the sole source of data.

Application Configuration Console Restricted-use Licensing

Oracle Enterprise Manager 10g Application Configuration Console includes restricted-use licenses for Oracle Database (Enterprise Edition) solely for the purpose of running the Oracle Enterprise Manager 10g Application Configuration Console Server.

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

Oracle includes restricted-use licenses for Oracle Database (Enterprise Edition) with licenses of Oracle Enterprise Manager 10g Application Configuration Console. If you want to use the Oracle Database (Enterprise Edition) not solely for

the purposes of running Oracle Enterprise Manager 10g Configuration Change Console Release Server, you must purchase full-use licenses for Oracle Database (Enterprise Edition).

Licensed Repository Views

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

- **Inventory Views:**
 - MGMT\$METRIC_CATEGORIES
 - MGMT\$GROUP_FLAT_MEMBERSHIPS
- **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_SUMM
 - MGMT\$TARGET_COMPLIANCE_SCORE
- **Policy Violation Views:**
 - MGMT\$POLICY_VIOLATION_CURRENT
 - MGMT\$POLICY_VIOLATION_HISTORY
 - MGMT\$POLICY_VIOLATION_CONTEXT
- **Oracle Home Patching Views:**
 - MGMT\$CPF_ADVISORY_INFO
 - MGMT\$CPF_HOMES_INFO
 - MGMT\$CPF_PATCH_INFO
 - MGMT\$EM_HOMES_PLATFORM
 - MGMT\$HOMES_AFFECTED
 - MGMT\$PATCH_ADVISORIES
 - MGMT\$APPL_PATCH_AND_PATCHSET
 - MGMT\$APPLIED_PATCHES
 - MGMT\$APPLIED_PATCHSETS
- **Linux Patching Views:**
 - MGMT\$HOSTPATCH_HOSTS
 - MGMT\$HOSTPATCH_GROUPS

- MGMT\$HOSTPATCH_GRP_COMPL_HIST
- MGMT\$HOSTPATCH_HOST_COMPL

Licensed Reports

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

- All reports in the category of **Linux Operating System Patching** that pertain to hosts on which application server targets reside are licensable.
- All reports in the category of **Oracle Home Patch Advisories** that pertain to Oracle Application Server targets and their underlying hosts are licensable.

Licensed Command Line Interface (CLI) Verbs

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

- add_beacon
- apply_template_tests
- assign_test_to_target
- clone_as_home
- delete_test
- disable_test
- enable_test
- extend_as_home
- extract_template
- get_instances
- get_procedure_types
- get_procedure_xml
- get_procedures
- remove_beacon
- provision
- set_availability
- set_key_beacons_and_tests
- submit_procedure
- sync_beacon

SOA Management Pack Enterprise Edition

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

This pack supports the following Grid Control SOA targets:

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

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

- Business Process Execution Language (BPEL)
- Oracle Enterprise Service Bus (OESB)
- Oracle Secure Backup (OSB)
- WebLogic Integration (WLI)
- Oracle SOA Suite 11g SOA Composites

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

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

Licensing for Grid Control SOA Targets

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

Features

The SOA Management Pack Enterprise Edition Grid Control targets include the features shown in [Table 3–7](#).

Table 3–7 Feature Highlights of SOA Management Pack Enterprise Edition

Feature	Benefit
Centralized management console	Provide administrators managing WebCenter environments with a consolidated browser-based view of the entire enterprise, thereby enabling them to monitor and manage all of their components from a central location.
Discovery and service modeling	Provide discovery of the following: <ul style="list-style-type: none"> ▪ Oracle BPEL processes deployed to the Oracle BPEL Process Manager (BPEL Process Manager) server and the dependent partner links. ▪ Oracle Service Bus-based business and proxy services. ▪ Service modeling offers out-of-the-box automated system modeling capabilities for the SOA infrastructure.

Table 3–7 (Continued) Feature Highlights of SOA Management Pack Enterprise Edition

Feature	Benefit
Runtime governance	Define SOAP tests to measure and record availability and performance of partner links (or any Web service) and business/proxy services for historical trending, troubleshooting, and root cause analysis purposes. Also provides an error hospital of process instances with drilldowns into instance details.
Infrastructure management	Monitor the availability and performance of the SOA infrastructure components. Both current and historic availability of targets (such as BPEL Process Manager or Oracle Service Bus) are recorded for troubleshooting and root cause analysis.
Configuration management	Collect configuration information for the BPEL Process Manager server/domains/processes and Oracle Service Bus. The parameters can be refreshed, saved, or compared with another target. Different versions of the same target can also be compared.
Deployment automation	Automate the deployment of the following: <ul style="list-style-type: none"> ▪ BPEL suitcases to one or more BPEL Process Manager targets ▪ Oracle Service Bus resources from one domain to another ▪ SOA Artifacts from one domain to another ▪ SOA Composites to a SOA Domain
Adapter metrics	Provide throughput and error metrics for different adapters in graphical format.
Business-IT alignment	Enables you to consolidate their IT and business management tools into a unified system. BAM-EM integration unites business KPIs and system metrics in one system for correlation and trending.
Service level management	Enables you 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.
Application dependency and performance	Enables you to manage your SOA solutions by leveraging a model-driven top-down approach within your development, quality assurance (QA), staging, and production environments. Business application owners and operational staff can automatically discover your BPEL work flows and correlate them with the underlying Web services; Enterprise Service Buses (ESBs); and back-end Java 2 Platform, Java Enterprise Edition resources through detailed modeling and drilling down directly into the performance metrics at the component level.
Historical analysis and reporting	Store the collected metric and configuration data in a central repository, thereby enabling administrators to analyze metrics through various historical views and facilitate strategic trend analysis and reporting.
End-to-end transaction tracing	Trace transactions across distributed application components, and monitor and measure performance characteristics of each component as well as the end-to-end transaction, with alerting based on faults and SLA compliance.

Licensed Links

- From the **Enterprise Manager Grid Control Home** page:
 - Select **Oracle BPEL Process Manager** from the Target Search drop-down menu, then click **Go**. A list of BPEL Process Manager targets appears. All target pages linked from this list are licensed as part of the SOA Management Pack Enterprise Edition.
- From the **Oracle BPEL Process Manager** page:
 - Click the **Processes** link at the top of the page. The BPEL Process List page appears, which shows all the deployed BPEL processes. All links and controls on the Process List page are licensed as part of the SOA Management Pack Enterprise Edition.
 - Click on one of the processes in the list. The Oracle BPEL Process page appears.

All links and controls on the Oracle BPEL Process page are licensed as part of the SOA Management Pack Enterprise Edition.
- From the **Enterprise Manager Grid Control Home** page:
 - Select **Oracle Service Bus** from the Target Search drop-down menu, then click **Go**. A list of Oracle Service Bus targets appears. All target pages linked from this list are licensed as part of the SOA Management Pack Enterprise Edition.
- From the **Deployments** tab, click the **Deployment Procedures** link. The following deployment procedure links are licensed as part of the SOA Management Pack Enterprise Edition:
 - **SOA Artifacts Provisioning**
 - **Deploy SOA Composites**
 - **BPEL Process Provisioning**
- From the Enterprise Manager Grid Control Middleware tab, the following links are licensed as part of the SOA Management Pack Enterprise Edition:
 - **SOA Home** link
 - **Application Dependency and Performance** link
- From the WebLogic Domain drop-down menu, select **Web Services**. The following selections are licensed as part of the SOA Management Pack Enterprise Edition:
 - **Policy Enforcement Dashboard**
 - **Registered Services**
 - **Saved Tests**
- From the Web Services selection above, select the **Test Web Services** menu item. The following button is licensed as part of the SOA Management Pack Enterprise Edition:
 - **Save Test**
- From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, the following items are licensed as part of the SOA Management Pack Enterprise Edition:
 - **Faults and Rejected Messages** tab
 - **Deployed Composites** tab

- All sub-items accessed from the **Monitoring** menu item
- All sub-items under the **Provisioning** menu item
- All sub-items under the **Configuration** menu item
- Blackouts under the **Control** menu item
- From the SOA Infrastructure menu accessible as a sub-target of a WebLogic Domain, select the **Service Engine** menu item, then the **BPEL Engine** sub-menu item.
 - The **Faults** tab on the BPEL Engine page is licensed as part of the SOA Management Pack Enterprise Edition.

Licensing for Targets Related to Application Dependency and Performance

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

Features

The SOA Management Pack Enterprise Edition includes application dependency and performance features only for SOA components, as shown in [Table 3–8](#).

Table 3–8 Feature Highlights of SOA Management Pack Enterprise Edition Application Dependency and Performance

Feature	Benefit
Automatic modeling and discovery	Automatically model and discover management applications displaying multiple views of the application, including the topology, function/flow, and architectural views.
Contextual visibility into SOA metrics	Provide drill-down contextual visibility into SOA metrics, enabling administrators to both quickly understand and analyze their application to identify potential bottlenecks and performance trends, as well as prepare for capacity changes and overall application management.
Service-level objectives	Provide service-level objectives (SLOs) at any point within the architecture for indicators and alerts.

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

Licensed Links

- From the **Enterprise Manager Home** page:
 - Click the **Targets** tab, then the **Middleware** sub-tab.
 - Click the **Application Dependency and Performance** link at the bottom of the page.
 - From the upper-left navigation pane in the resulting view, click the **Monitor** tab. The following links, including all of the associated links in the right-hand pane, and any pages, views, or links as well as the items they contain are included licensed features:

- * **Oracle Enterprise Manager** link, and all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- * **BPEL Processes** link, all sub-nodes of the BPEL Processes, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- * **ESB** link, all sub-nodes of ESB, and all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- * **OSB** link, all sub-nodes of Oracle Service Bus, and all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- * **Composites** link, all sub-nodes of Oracle Service Bus, and all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- * **AIA** link, all sub-nodes of AIA, and all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- * **Web Services** link, all sub-nodes of Web Services, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- * **WLI Web Services** link, all sub-nodes of WLI Web Services, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- * **Integration** link, all sub-nodes of Integration, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- * **Processes** link, all sub-nodes of Processes, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- * **Applications** link, all sub-nodes of Applications, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane, except for these sub-nodes, which are excluded if they appear: Portals, WebCenter, Services, Pageflows
- * **Resources** link, all sub-nodes of Resources, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane, except for these sub-nodes, which are excluded if they appear: Portals, WebCenter, Services, Pageflows

- From the Application Dependency and Performance User Interface default view, the following links and menu items are licensed features of the SOA Management Pack Enterprise Edition:
 - From the upper-left navigation area, click the **Configure** tab link. All navigation tree nodes as well as all tabbed pane links and data available in the right pane are licensed features.
 - All of the drop-down menu items and sub-items, navigation bars, lower information bar (bottom of interface), and time frame modification features at the top of the interface are licensed features.

Licensed Reports

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

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

Licensed Command Line Interface (CLI) Verbs

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

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

Additional Licensing Information

Application Dependency and Performance component of Enterprise Manager contains AspectJ BCEL 1.5.4 and Core Tools (the "EPL Programs"). The authors and/or contributors to the EPL Programs disclaim (i) all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose and (ii) all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits.

Any provision of any license provided by Oracle is offered by Oracle alone and not by any other party. The source code for the EPL Programs and a copy of the Eclipse Public License is available from Oracle at the following URL:

<http://oss.oracle.com/projects/aspectj/src/trunk/>

IMPORTANT NOTICES: The following source and properties files were modified by Oracle in order to resolve bugs found in the base AspectJ 1.5.4 code base. Therefore, the files have been publicly published at the following URL on Oracle's public website in accordance with the Eclipse Public License:

<http://oss.oracle.com/projects/aspectj/src/trunk/aspectj1.5.4.zip>

Licensing for Business Transaction Management

The SOA Management Pack Enterprise Edition includes Business Transaction Management features only for OSB, Oracle SOA Suite, and web service components, as shown in [Table 3–9](#).

Table 3–9 Feature Highlights of Business Transaction Management Within SOA Management Pack Enterprise Edition

Feature	Benefit
Transaction discovery	Discover, record, and correlates transactions as they flow across components that span multiple JVMs, containers, and platforms.
Contextual visibility into Java EE metrics	Provide drill-down contextual visibility into SOA and OSB metrics, enabling administrators to quickly understand and analyze distributed applications to identify potential bottlenecks and performance trends, as well as prepare for capacity changes and overall application management.
Transaction-level agreements	Provide transaction-level objectives (TLOs) that span multiple interacting components.
Exception management	Transaction alerting and searching to locate exceptions and errors in transactions that span multiple application components
Closed-loop governance	Provision performance report cards to OSR.

Licensed entities are as follows:

- Enterprise Service Bus category — Oracle Service Bus is licensed.
- Registries category — Oracle Service Registry is licensed.

Management Pack for WebCenter Suite

This pack delivers comprehensive management and modeling capabilities for WebLogic Portal and WebCenter environments running in Oracle WebLogic Server as well as the underlying Java EE components. By combining contextual drill-down modeling capabilities with extensive metrics that can span containers horizontally as well as the entire vertical stack for Portal and Java EE, Management Pack for WebCenter Suite significantly reduces the cost and complexity of managing WebLogic Portal-based environments in development, testing, staging, and production environments.

Features of Management Pack for WebCenter Suite

Oracle Enterprise Manager Grid Control models and monitors SOA, Portal, and Java Enterprise Edition applications that enables users to quickly identify bottlenecks, performance trends, and overall application efficiency.

Oracle Enterprise Manager Grid Control includes the features shown in [Table 3–10](#).

Table 3–10 Feature Highlights of Management Pack for WebCenter Suite

Feature	Benefit
Performance monitoring	Provide real-time and historical performance monitoring. Reduces the complex tasks of diagnosing and correcting performance problems for your targets.
Advanced alert management	Provide notification methods, rules and schedules, metric history and associated drill-downs, ability to set blackouts, associate corrective actions with alert, user-defined metrics, metric snapshots, and monitoring templates.
Centralized management console	Provide administrators managing WebCenter environments with a consolidated browser-based view of the entire enterprise, thereby enabling them to monitor and manage all of their components from a central location.
Automatic modeling and discovery	Automatically model and discover management applications displaying multiple views of the application, including the topology, function/flow, and architectural views.
Service-level management	Monitor services from the end-user's perspective using service tests or synthetic transactions, model relationships between services and underlying IT components, and report on achieved service levels.
Contextual visibility into Portal, Web Services and J2EE metrics	Provide drill-down contextual visibility into Portal, Web Services, and J2EE metrics, enabling administrators to both quickly understand and analyze their application to identify potential bottlenecks and performance trends, as well as prepare for capacity changes and overall application management.
Metrics visibility at any layer	Automatically generate customized dashboards and views to view metrics at any layer in the application through graphs and tables.
Service-level objectives	Provide service-level objectives (SLOs) at any point within the architecture for indicators and alerts.

Licensed Links

- From the Enterprise Manager Home page, select **Oracle WebCenter** from the Target Search drop-down menu, then click **Go**. A list of Oracle WebCenter targets appears. Click on any target.
 - All of the alert, policy violation, and historical links on the **WebCenter** right-hand pane are licensed as part of the Management Pack for WebCenter Suite.
 - All of the alert, policy violation, and historical links on the **Portlet Producer** right-hand pane are licensed as part of the Management Pack for WebCenter Suite.
- From the Enterprise Manager Home page, click the **Targets** tab, then the **Middleware** sub-tab. Click **Application Performance and Dependency** 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. (See details in the section below.)
- From the Application Dependency and Performance dashboard page, the following links and menu items are licensed features of the Management Pack for WebCenter Suite:

- From the upper-left navigation pane, click on the **Monitor** tab. The following links, including all of the associated links in the right-hand pane, and any pages, views, or links as well as the items they contain are included licensed features:
 - * **Oracle Enterprise Manager** link, and all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - * **Portals** link, all sub-nodes, and all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - * **WebCenter** link, all sub-nodes, and all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - * **Web Services** link, all sub-nodes of Web Services, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - * **Pageflows** link, all sub-nodes of Pageflows, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - * **Services** link, all sub-nodes of Services, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - * **Processes** link, all sub-nodes of Processes, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - * **Applications** link, all sub-nodes of Applications, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - * **Resources** link, all sub-nodes of Resources, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- 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 under **WebCenter** and **ADF** are licensed as part of the Management Pack for WebCenter Suite.
 - **All**, **Day**, and **2 hours** views available from the ADF Performance page accessed from the Application Deployment menu are licensed as part of the Management Pack for WebCenter Suite.
- From the Portlet Producer page, the following links and menu items are licensed with this pack:

- **Status History, Alert History, Blackouts, Policy Violations, and Policy Trend Overview** pages accessed from the Monitoring sub-menu within the Portlet Producer menu
- **Create/End Blackout...** page accessed from the Control sub-menu
- The following items under Monitoring in the WebCenter drop-down are licensable:
 - **Performance Summary**
 - **Service Metrics**
 - **Historical Service Metrics**
 - **Group Space Metrics**
 - **Historical Group Space Metrics**
 - **Status History**
 - **Alert History**
 - **Blackouts**
 - **Policy Violation**
 - **Policy Trend Overview**
 - **Create/End Blackout...** page accessed from the Control sub-menu
- From the upper-left navigation area, click the **Configure** tab link. All navigation tree nodes as well as all tabbed pane links and data available in the right pane are licensed features.
- From the upper-left navigation area, click the **Resources** tab link. All navigation tree nodes as well as all tabbed pane links and data available in the right pane are licensed features.
- From the upper-left navigation area, click the **Custom Views** tab link. All navigation tree nodes in the lower-left navigation tree as well as all tabbed pane links and data available in the right pane are licensed features.

Additional Licensing Information

Application Dependency and Performance component of Enterprise Manager Oracle contains AspectJ BCEL 1.5.4 and Core Tools (the "EPL Programs"). The authors and/or contributors to the EPL Programs disclaim (i) all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose and (ii) all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits.

Any provision of any license provided by Oracle is offered by Oracle alone and not by any other party. The source code for the EPL Programs and a copy of the Eclipse Public License is available from Oracle at the following URL:

<http://oss.oracle.com/projects/aspectj/src/trunk/>

IMPORTANT NOTICES: The following source and properties files were modified by Oracle in order to resolve bugs found in the base AspectJ 1.5.4 code base. Therefore, the files have been publicly published at the following URL on Oracle's public website in accordance with the Eclipse Public License:

<http://oss.oracle.com/projects/aspectj/src/trunk/aspectj1.5.4.zip>

Diagnostics Pack for Oracle Middleware

This pack improves the availability and performance of Java applications with low overhead, as well as providing in-depth diagnostics. It enables administrators to proactively monitor application performance and diagnose the root cause of performance problems, such as application crashing and hanging in a production environment, which may severely impact businesses.

Note: System Monitoring Plug-in for Hosts is included with the Diagnostics Pack for Oracle Middleware license.

Features

This pack includes the following components:

- Enterprise Manager system monitoring functionality applicable for both Oracle Application Server and Oracle WebLogic Server.
See [Table 3–11](#) for feature highlights.
- Enterprise Manager Java diagnostics functionality applicable for both Oracle Application Server and Oracle WebLogic Server. See the README.TXT file from <http://www.oracle.com/technology/software/products/oem/htdocs/jade.html> for the latest information about supported JVMs and platforms.
See [Table 3–12](#) for feature highlights.
- Oracle JRockit Mission Control, which you can use with either Oracle WebLogic or Oracle Application Server with JRockit JVM.
See [Table 3–13](#) for feature highlights.

Table 3–11 Feature Highlights of Enterprise Manager System Monitoring

Feature	Benefit
Performance monitoring (applies to Oracle Application Server and WebLogic Server)	Provide real-time and historical performance monitoring. Reduces the complex tasks of diagnosing and correcting performance problems for your targets.
Advanced alert management (applies to Oracle Application Server and WebLogic Server)	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.
Request performance (applies only to Oracle Application Server)	<ul style="list-style-type: none">▪ Historical views show the response times for end-user requests.▪ Response time breakdowns are available in each layer (servlet, JSP, EJB, JDBC, and SQL) of an OC4J container.
Interactive transaction trace (applies only to Oracle Application Server)	<ul style="list-style-type: none">▪ Play a transaction interactively from the browser and view the response time profile.▪ View the time consumed in the network and server.▪ View the response time breakdowns in each layer (servlet, JSP, EJB, JDBC, and SQL) of an OC4J container.

Table 3–12 Feature Highlights of Enterprise Manager JVM Diagnostics

Feature	Benefit
Hot deployment without server restarts or configuration changes	<ul style="list-style-type: none"> ▪ Quick time to value ▪ Simple to deploy ▪ Easy to use
"Always on" low overhead monitoring, notifications, and dashboards	<ul style="list-style-type: none"> ▪ Diagnose past problems ▪ Receive early warnings of outages ▪ See a single view of the status of all applications
WebLogic Domain/JVM pool monitoring	<ul style="list-style-type: none"> ▪ Monitor all JVMs of an application together with uniform monitoring settings. ▪ Different administrators can monitor and receive notifications on different applications.
Real-time visibility into a JVM and application state without instrumentation overhead	<ul style="list-style-type: none"> ▪ No need to reproduce problems in a test environment. ▪ No application knowledge required.
Trace in-flight transactions	<ul style="list-style-type: none"> ▪ View request performance problems in real time. ▪ Analyze time spent in each resource bottleneck and Java method.
Cross-tier trace with Oracle Database	<ul style="list-style-type: none"> ▪ View the impact of database problems on all associated applications and JVMs. ▪ Clearly isolate problems between Java and the database. ▪ Achieve smooth communication between application administrators and DBAs
Differential heap analysis	<ul style="list-style-type: none"> ▪ Utilize memory leak analysis in production. ▪ Simplify memory growth and leak analysis.

Table 3–13 Feature Highlights of JRockit Mission Control

Feature	Benefit
Quick deployment	<ul style="list-style-type: none"> ▪ Quick time to value ▪ No agent installation or configuration required ▪ No code changes required
Nearly no overhead, monitoring, diagnostics, and profiling	Diagnose problems in production.
Real-time monitoring of JVM	<ul style="list-style-type: none"> ▪ Configure triggers to send email, generate application alerts, log to files, or create a profiling snapshot when specific conditions are met. ▪ Lightweight method and exception profiler.
Memory leak detection and analysis	<ul style="list-style-type: none"> ▪ Memory leak analysis in production. ▪ Automated trend analysis and visual breakdown enables even non-developers to quickly analyze and find the root cause of memory leaks.

Table 3–13 (Continued) Feature Highlights of JRockit Mission Control

Feature	Benefit
Latency analysis	<ul style="list-style-type: none"> ▪ Diagnose the root cause of latency and scalability issues in your application. ▪ Get detailed information on latency-causing events, such as GC, locks, wait-notify, I/O, JIT, class loading, memory allocation, and more. ▪ Visualize the thread execution timeline, including latency events and thread interaction.
Eclipse IDE integration	<ul style="list-style-type: none"> ▪ Quick problem resolution for Java developers. ▪ Extend base JRMC functionality with the ability to jump between diagnostics/profiling and source code views.

Licensed Links

- From the **Enterprise Manager Home page**:
 - Select the **Targets** tab, then the **Web Applications** sub-tab. Click any **Web Application Name** in the table. On the **Web Application page** that appears, the **Page Performance** tab is a licensed feature of the **Diagnostics Pack for Oracle Middleware**.
 - Click the **Page Performance** tab. All links, buttons, and drilldowns on the **Page Performance page** are licensed features of the Diagnostics Pack for Oracle Middleware.
 - From the **Page Performance page**, the following Related Links are also part of the Diagnostics Pack for Oracle Middleware:
 - * Advanced Analysis
 - * Alert History
 - * Blackouts
 - * Metric Baselines
- From the **Web Application page** linked from the **Targets page**:
 - Click the **Request Performance** tab. All links, buttons, and drilldowns on the **Request Performance page** are licensed features of the Diagnostics Pack for Oracle Middleware.
 - From the **Request Performance page**, the following Related Links are also part of the Diagnostics Pack for Oracle Middleware:
 - * **OC4J Performance**
 - * **Alert History**
 - * **Blackouts**
 - * **Metric Baselines**
- From the **Web Application page** linked from the **Targets page**:
 - Click the **Monitoring Configuration** tab. All four links in the **Web Application Tasks** section are licensed features of the Diagnostics Pack for Oracle Middleware.
 - From the **Monitoring Configuration page**, the following Related Links are also part of the Diagnostics Pack for Oracle Middleware:

- * **Alert History**
- * **Blackouts**
- * **Metric Baselines**
- From the **Web Application page** linked from the **Targets page**:
 - Click the **Test Performance** tab, then click any test in the table. On the resulting **Web Transaction** home page, the **Play with Trace** button is a licensed feature of the Diagnostics Pack for Oracle Middleware.
- From the **Enterprise Manager Home page**:
 - Select the **Targets** tab, then the **Services** sub-tab. Click any **Forms Application Name** in the table. On the resulting **Forms Application page**, the **Page Performance** tab is a licensed feature of the **Diagnostics Pack for Oracle Middleware**.
 - Click the **Page Performance tab**. All links, buttons, and drilldowns on the **Page Performance page** are licensed features of the Diagnostics Pack for Oracle Middleware.
 - From the **Page Performance page**, the following Related Links are also part of the Diagnostics Pack for Oracle Middleware:
 - * **Advanced Analysis**
 - * **Alert History**
 - * **Blackouts**
 - * **Metric Baselines**
- From the **Forms Application page** linked from the **Targets page**:
 - Click the **Monitoring Configuration** tab. The following links in the **Forms Application Tasks** section are licensed features of the Diagnostics Pack for Oracle Middleware.
 - * **Manage Watch Lists**
 - * **Manage Regions**
 - * **Manage Web Server Data Collection**
- **All the pages** in Oracle Java Diagnostics are licensed features of the Diagnostics Pack for Oracle Middleware.
- From the **Enterprise Manager Home page**:
 - Select the **Targets** tab, then the **Middleware** sub-tab. From the Middleware page, click an **Oracle Application Server Farm** link. The **Metrics** link in the Oracle Middleware Farm page is a licensed feature of the Diagnostics Pack for Oracle Middleware.
 - From the Middleware page, click an **Oracle Application Server Cluster** link. The Metrics link in the Oracle Application Server Cluster Home page is a licensed feature of the Diagnostics Pack for Oracle Middleware.
 - From the Middleware page, click an **Oracle Application Server** link. The following links in the Oracle Application Server Home page are licensed features of the Diagnostics Pack for Oracle Middleware:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section

- * **All Metrics** in the Related Links section
- * **Blackouts** in the Related Links section
- From the Oracle Application Server home page, click the **Performance** tab. All of the links in the Performance Links section of the Application Server Performance page are licensed features of the Diagnostics Pack for Oracle Middleware.
- From the Application Server page, click an **OC4J** link. The following links in the OC4J Home page are licensed features of the Diagnostics Pack for Oracle Middleware:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section
- From the OC4J Home page, click the **Performance** tab. All of the links in the Performance Links section of the OC4J Performance page are licensed features of the Diagnostics Pack for Oracle Middleware.
- From the Application Server page, click an **Oracle HTTP Server** link. The following links in the HTTP Server Home page are licensed features of the Diagnostics Pack for Oracle Middleware:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section
- From the HTTP Server Home page, click the **Server Performance** tab. All of the links in the Performance Links section of the HTTP Server Performance page are licensed features of the Diagnostics Pack for Oracle Middleware.
- From the HTTP Server Home page, click the **Virtual Host Performance** tab. This tab is a licensed feature of the Diagnostics Pack for Oracle Middleware.
- From the Application Server page, click a **Web Cache** link. The following links in the Web Cache Home page are licensed features of the Diagnostics Pack for Oracle Middleware:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section
- From the Web Cache Home page, click the **Performance** tab. All of the links in the Performance Links section of the Web Cache Performance page are licensed features of the Diagnostics Pack for Oracle Middleware.
- From the Middleware sub-tab, click an **Oracle WebLogic Server Cluster** link. The **Metrics** link in the Oracle WebLogic Server Cluster Home page is a licensed feature of the Diagnostics Pack for Oracle Middleware.
- From the Middleware sub-tab, click an **Oracle WebLogic Managed Server** link. The following links in the Oracle WebLogic Managed Server Home page are licensed features of the Diagnostics Pack for Oracle Middleware:

- * **Alert History** and notifications functionality in the Related Links section
- * **All Metrics** in the Related Links section
- * **Blackouts** in the Related Links section
- From the Oracle WebLogic Managed Server Home page, click the **Performance** tab. All of the links in the Performance Links section of the Oracle WebLogic Managed Server Performance page are licensed features of the Diagnostics Pack for Oracle Middleware.
- All the links under Oracle AD4J in the Oracle Application Diagnostics for Java (AD4J) are licensed features of the Diagnostics Pack for Oracle Middleware.
- JRockit Mission Control, when Oracle middleware is running on JRockit JVM, is a licensed feature of the Diagnostics Pack for Oracle Middleware.

Management Pack for Oracle Coherence

The Management Pack for Oracle Coherence provides comprehensive monitoring and management capabilities for Coherence. This pack provides 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.

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. 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.

Features

The Management Pack for Oracle Coherence includes the high-level features shown in [Table 3–14](#).

Table 3–14 Feature Highlights of Management Pack for Oracle Coherence

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

Licensed Links

- From the **Enterprise Manager Home page**, select the **Targets** tab, then the **Middleware** sub-tab.

All links of type **Oracle Coherence Cluster** in the table are a licensed feature of the Management Pack for Oracle Coherence, as are all subordinate pages from this drill-down.

Business Intelligence Management

Enterprise Manager offers the following management pack for Business Intelligence Management:

- [Business Intelligence Management Pack](#)

The following section in this chapter describes the licensed features for this pack.

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). 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.

Features

The Business Intelligence Management Pack includes the features shown in [Table 4–1](#).

Table 4–1 *Feature Highlights of Oracle Business Intelligence Pack*

Feature	Benefit
Performance charts	See detailed performance charts in a historical view to perform usage analysis and diagnose production problems.
Dashboards and reports	Visualize in one stop the health status of the BI environment.
Alert notifications	Provide proactive management to improve performance and availability.
Historical metrics	Measure a wide range of usage and performance metrics for monitored Oracle BI targets, send out alerts when these metrics exceed or nearly exceed pre-defined thresholds, and diagnose performance problems by identifying bottlenecks in any of the monitored Oracle BI targets.
Blackouts	Suppress unnecessary alerts during maintenance windows, and provide more accurate availability reporting.
O/S monitoring	Provide complete end-to-end management of the application environment.

Table 4–1 (Continued) Feature Highlights of Oracle Business Intelligence Pack

Feature	Benefit
Automatic discovery	Speed up the management pack setup for quicker time-to-benefit.
Configuration snapshot	Allow known effective configuration information to be retained for future analysis. Save configurations to a configuration file (XML file) or to the Management Repository.
Configuration comparison	Get quicker configuration diagnostics. Use Configuration Comparison to: <ul style="list-style-type: none"> ▪ Replicate configuration in development/staging to production. ▪ Make sure that configuration settings amongst Oracle BI components in a clustered environment are consistent.
Change history	Search collected configuration data and view the history of configuration changes for diagnostic and regulatory purposes.
Service tests and beacons	Record service tests to simulate key end-user activities, and actively measure performance and availability from an end-user perspective.
Service level rule	Define service-level objectives based on business requirements.
Dashboard reports	Provide key query statistics for usage trending analysis, enabling you to view detailed information about the top dashboards and top users by resource usage. Besides usage trending, these reports can help you diagnose performance problems by showing a complete listing of failed dashboards, along with the error code/message and SQL statements associated with the failed queries, and a breakdown of dashboard response time based on database time, compile time, and overall time for end-user queries.

Licensed Links for Business Intelligence Management Pack

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

- Oracle BI Analytics Server
- Oracle BI 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

Oracle BI Analytics Server

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select an **Oracle BI Analytics Server** name. The Oracle BI Analytics Server Home page appears. The following items are licensed features of this pack:
 - **Black Out button**
 - **Availability link**

- All links in the System and Service section
- All links in the Configuration section
- All links in the Related Links section
- From the Oracle BI Analytics Server Home page, select the Performance sub-tab. **All features on the Oracle BI Analytics Server Performance page** are licensed features of this pack.
- From the Oracle BI Analytics Server Home page, select the Dashboard Reports sub-tab. **All features on the Oracle BI Analytics Server Dashboard Reports page** are licensed features of this pack.

Oracle BI Cluster Controller

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select an **Oracle BI Cluster Controller** name. The Oracle BI Cluster Controller Home page appears. The following items are licensed features of this pack:
 - **Black Out button**
 - **Availability link**
 - **Analytics Server link**
 - All links in the System and Service section
 - All links in the Configuration section
 - All links in the Related Links section
- From the Oracle BI Cluster Controller Home page, select the Members sub-tab. **All features on the Oracle BI Cluster Controller Members page** are licensed features of this pack.

Oracle BI Presentation Server

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select an **Oracle BI Presentation Server** name. The Oracle BI Presentation Server Home page appears. The following items are licensed features of this pack:
 - **Black Out button**
 - **Availability link**
 - All links in the System and Service section
 - All links in the Configuration section
 - All links in the Related Links section
- From the Oracle BI Presentation Server Home page, select the **Performance** sub-tab. **All features on the Oracle BI Presentation Server Performance page** are licensed features of this pack.

Oracle BI Scheduler

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select an **Oracle BI Scheduler** name. The Oracle BI Scheduler Home page appears. The following items are licensed features of this pack:
 - **Black Out button**
 - **Availability link**

- **Failed BI Jobs Scheduler section**
- **Next Schedule Jobs section**
- All links in the **System and Service section**
- All links in the **Configuration section**
- All links in the **Related Links section**

Oracle BI Suite Enterprise Edition

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select an **Oracle BI Suite EE** name. The Oracle BI Suite EE Home page appears. The following items are licensed features of this pack:
 - **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**
- From the Oracle BI Suite EE Home page, select the Members sub-tab. **All features on the Oracle BI Suite EE Members page** are licensed features of this pack.
- From the Oracle BI Suite EE Home page, select a **System name** in the System and Service section. **All features on the System Home page** are licensed features of this pack.
- From the System Home page, select the **Charts** sub-tab. **All features on the System Charts page** are licensed features of this pack.
- From the System Home page, select the **Administration** sub-tab. **All features on the System Administration page** are licensed features of this pack.
- From the System Home page, select the **Components** sub-tab. **All features on the System Components page** are licensed features of this pack.
- From the System Home page, select the Topology sub-tab. **All features on the System Topology page** are licensed features of this pack.
- From the Oracle BI Suite EE Home page, select a **Service** name in the System and Service section. The **Service Home** page appears. The following items are licensed features of this pack:
 - **Black Out button**
 - **Availability link**
 - **All links in the Key Component Summary section**
 - **All links in the Related Links section**
- From the **Service Home** page, select the **Charts** sub-tab. **All features on the Service Charts page** are licensed features of this pack.
- From the Service Home page, select the **System** sub-tab. **All features on the Service System page** are licensed features of this pack.
- From the Service Home page, select the **Topology** sub-tab. **All features on the Service Topology page** are licensed features of this pack.
- From the Service Home page, select the **Monitoring Configuration** sub-tab. The Monitoring Configuration page appears. The following items are licensed features of this pack:

- **System Configuration, Root Cause Analysis Configuration, Service Tests and Beacons, Availability Definition, Performance Metrics, and Usage Metrics links**
- **All links in the Related Links section**

Oracle BI Data Warehouse Administration Console (DAC) Server

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select an **Oracle BI DAC Server** name. The Oracle BI DAC Server Home page appears. The following items are licensed features of this pack:
 - **Black Out button**
 - **Availability link**
 - **All links in the System and Service section**
 - **All links in the Configuration section**
 - **All links in the Related Links section**
- From the Oracle BI DAC Server Home page, select the **Performance** sub-tab. **All features on the Oracle BI DAC Server Performance page** are licensed features of this pack.

Hosts Running BI Components

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a **Host** name (where BI components are running). The Host Home page appears. The following items are licensed features of this pack:
 - **Black Out button**
 - **Availability link**
 - **View Current Users link**
 - **All links in the Alerts section**
 - **All links in the Related Links section**
- From the Host Home page, select the **Performance** sub-tab. **All features on the Host Performance page** are licensed features of this pack.
- From the Host Home page, select the **Administration** sub-tab. **All features on the Host Administration page** are licensed features of this pack.

Note: The Administration page is only available for Linux operating systems.

- From the Host Home page, select the **Targets** sub-tab. **All features on the Host Targets page** are licensed features of this pack.

Configuration Management Licensed Links for Business Intelligence

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 Oracle Business Intelligence Management Pack 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 Business Intelligence-specific software components, which include:

- Oracle BI Analytics Server
- Oracle BI Presentation Server

- Oracle BI Scheduler
- Oracle BI Cluster Controller
- Oracle BI DAC Server

Configuration Management features of the Business Intelligence Management Pack enable users to:

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

Licensed Links

The following licensed pages and links of this pack apply to Business Intelligence-specific targets within Enterprise Manager. These targets include Oracle BI Analytics Server, Oracle BI Presentation Server, Oracle BI Scheduler, Oracle BI Cluster Controller, and Oracle BI DAC Server.

- Grid Control Home page:
 - **All links in the All Targets Policy Violations section**
 - **Hardware and Operating System related information in the Deployment Summary sections**
 - **All links in the Security Policy Violations section**
- From the Grid Control Home page, click the **Deployments** tab. On the **Deployments** page, the following items are licensed features of Configuration Management within the Business Intelligence Management Pack:
 - **Hardware and Operating System related information in the Deployment Summary sections**
 - **All links in the Configuration section**
 - **All links in the Client Configurations section**

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 PeopleSoft Enterprise, Business Intelligence Management Pack, and Configuration Pack for Oracle Middleware.

- From the Grid Control Home page, select the **Compliance** tab, then the **Policies** sub-tab to display the Policy Violations page. 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 Grid Control Policies Violations page for

information related to hosts are licensed features of Configuration Management within the Business Intelligence Management Pack.

- From the Grid Control Home page, select the **Compliance** tab, then the **Security at a Glance** sub-tab. On the Grid Control Security at a Glance page, all links related to information on the host are licensed features of Configuration Management within the Business Intelligence Management Pack.
- From the Grid Control Home page, click the **Targets** tab, then select the **Systems** sub-tab. On the **Systems** page, the following items are licensed features of Configuration Management within the Business Intelligence Management Pack:
 - **Policy Violations** link
- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. On the **Groups** page, the following items are licensed features of Configuration Management within the Business Intelligence Management Pack:
 - **Policy Violations** link
- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. Select a group. On the Group Home page, the following items are licensed features of Configuration Management within the Business Intelligence Management Pack:
 - **All links in the Configuration Changes** section
 - **All links in the Policy Violations** section
 - **All links in the Security Policy Violations** section
- From the Groups Home page, click the **Administration** tab. The following links are licensed features of Configuration Management within the Business Intelligence Management Pack:
 - **Hardware and Operating System related information in the Deployment Summary** sections
 - **Configuration Searches** feature for host and operating systems
- From the Groups Home page, click the **Members** tab. The following links are licensed features of Configuration Management within the Business Intelligence Management Pack:
 - **All links and the information in the Policy Violations** column

Licensed Reports

The following reports are part of the licensed features of Configuration Management within the Business Intelligence Management Pack. All reports in each of these sections are features of Configuration Management within the Business Intelligence Management Pack. To display the Report Definitions page, click the **Reports** tab on the Grid Control Home page.

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

Licensed Repository Views

The following repository views are licensed features of Configuration Management within the Business Intelligence Management Pack:

- **Policy Definition Views**
 - mgmt\$polices
 - mgmt\$policy_parameters
 - mgmt\$policy_violation_ctxt
 - mgmt\$policy_viol_annotations
 - mgmt\$policy_viol_notif_log
- **Policy Association Views**
 - mgmt\$target_policies
 - mgmt\$target_policy_settings
 - mgmt\$target_policy_eval_sum
 - mgmt\$target_compliance_score
- **Policy Violation Views**
 - mgmt\$policy_violation_current
 - mgmt\$policy_violation_history
 - mgmt\$policy_violation_context
- **Configuration Views**
 - mgmt\$db_tablespace
 - mgmt\$db_datafiles
 - mgmt\$db_controlfiles
- **Oracle Home Patching**
 - MGMT\$CPF_ADVISORY_INFO
 - MGMT\$CPF_HOMES_INFO
 - MGMT\$CPF_PATCH_INFO
 - MGMT\$EM_HOMES_PLATFORM
 - MGMT\$HOMES_AFFECTED
 - MGMT\$PATCH_ADVISORIES
 - MGMT\$APPL_PATCH_AND_PATCHSET
 - MGMT\$APPLIED_PATCHES
 - MGMT\$APPLIED_PATCHSETS
- **Linux Patching**
 - MGMT\$HOSTPATCH_HOSTS
 - MGMT\$HOSTPATCH_GROUPS
 - MGMT\$HOSTPATCH_GRP_COMPL_HIST
 - MGMT\$HOSTPATCH_HOST_COMPL

- **Security Views**
 - MGMT\$ESA_ALL_PRIVS_REPORT
 - MGMT\$ESA_ANY_DICT_REPORT
 - MGMT\$ESA_ANY_PRIV_REPORT
 - MGMT\$ESA_AUDIT_SYSTEM_REPORT
 - MGMT\$ESA_BECOME_USER_REPORT
 - MGMT\$ESA_CATALOG_REPORT
 - MGMT\$ESA_CONN_PRIV_REPORT
 - MGMT\$ESA_CREATE_PRIV_REPORT
 - MGMT\$ESA_DBA_GROUP_REPORT
 - MGMT\$ESA_DBA_ROLE_REPORT
 - MGMT\$ESA_DIRECT_PRIV_REPORT
 - MGMT\$ESA_EXMPT_ACCESS_REPORT
 - MGMT\$ESA_KEY_OBJECTS_REPORT
 - MGMT\$ESA_OH_OWNERSHIP_REPORT
 - MGMT\$ESA_OH_PERMISSION_REPORT
 - MGMT\$ESA_POWER_PRIV_REPORT
 - MGMT\$ESA_PUB_PRIV_REPORT
 - MGMT\$ESA_SYS_PUB_PKG_REPORT
 - MGMT\$ESA_TABSP_OWNERS_REPORT
 - MGMT\$ESA_TRC_AUD_PERM_REPORT
 - MGMT\$ESA_WITH_ADMIN_REPORT
 - MGMT\$ESA_WITH_GRANT_REPORT
- **Client Configurations Views**
 - MGMT\$CSA_COLLECTIONS
 - MGMT\$CSA_FAILED
 - MGMT\$CSA_HOST_OS_COMPONENTS
 - MGMT\$CSA_HOST_SW
 - MGMT\$CSA_HOST_COOKIES
 - MGMT\$CSA_HOST_CUSTOM
 - MGMT\$CSA_HOST_RULES
 - MGMT\$CSA_HOST_CPUS
 - MGMT\$CSA_HOST_IOCARDS
 - MGMT\$CSA_HOST_NICS
 - MGMT\$CSA_HOST_OS_PROPERTIES
 - MGMT\$CSA_HOST_OS_FILESYSTEMS
 - MGMT\$ECM_CONFIG_HISTORY

- MGMT\$ECM_CONFIG_HISTORY_KEY1
- MGMT\$ECM_CONFIG_HISTORY_KEY2
- MGMT\$ECM_CONFIG_HISTORY_KEY3
- MGMT\$ECM_CONFIG_HISTORY_KEY4
- MGMT\$ECM_CONFIG_HISTORY_KEY5
- MGMT\$ECM_CONFIG_HISTORY_KEY6
- MGMT\$HW_NIC
- MGMT\$OS_COMPONENTS
- MGMT\$OS_FS_MOUNT
- MGMT\$OS_HW_SUMMARY
- MGMT\$OS_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

Identity Management Enterprise Management

Enterprise Manager offers the following management pack for Identity Management:

- [Management Pack for Identity Management](#)

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

Management Pack for Identity Management

The Management Pack for Identity Management enables enterprises to proactively monitor the availability, performance, load, and security metrics of various Identity Management components. The Management Pack for Identity Management 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

Features

The Management Pack for Identity Management leverages Oracle Enterprise Manager Grid Control's broad set of capabilities in configuration management, performance management, and service level management to effectively manage Oracle Identity Management environments.

When combined with other Enterprise Manager packs and plug-ins for managing Oracle and non-Oracle database, middleware, network devices and hosts, you can achieve complete end-to-end management of your entire Oracle Identity Management environment.

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.

The Management Pack for Identity Management includes the features shown in [Table 5–1](#).

Table 5–1 Feature Highlights of Management Pack for Identity Management

Feature	Benefit
Single-step discovery	<p>Perform a single-step discovery of both Identity Management 10g and Identity Management 11g components. The supported Identity Management 10g components include Oracle Access Manager (OAM) 10g, Oracle Identity Manager (OIM) 9.x, Oracle Identity Federation (OIF) 10g, and Oracle Identity Management Suite 10g (including Oracle Internet Directory, Directory Integration Platform, Delegated Administration Services, and Single Sign-On).</p> <p>The supported Identity Management 11g components include Oracle Internet Directory, Oracle Directory Integration Platform, Oracle Virtual Directory, Oracle Identity Federation, Oracle Access Manager, Oracle Identity Manager, and Oracle Adaptive Access Manager. Single-step discovery enables you to quickly set up your monitoring environment.</p> <p>With the Oracle System Monitoring Plug-in for Oracle Directory Server, a simple target discovery is also provided for Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition) 6.x and 7.x, as well as ODSEE 11gR1 and 11gR1PS1.</p>
Monitoring and diagnostics	<p>Receive real-time metrics and historical data as well as alert notifications.</p> <p>Proactively monitor the Oracle Identity Management environment from both a systems-oriented view and an end-user perspective. Out-of-box collection of key performance metrics for monitored components facilitates rapid time to value. This enables you to set up alerts based on warning and critical thresholds, view current and historical performance information using graphs and reports, and diagnose performance problems by identifying bottlenecks in any of the monitored targets.</p>
Configuration	<p>Track configuration metrics, take configuration snapshots, and compare configurations for Oracle Access Manager 10g components, as well as Oracle Internet Directory 11g, Oracle Directory Integration Platform 11g, Oracle Virtual Directory 11g, and Oracle Identity Federation 11g.</p>
Service level management	<p>Model Identity and Access services down to the key components they rely on, define service levels based on business requirements, and report against clearly defined Service Level Objectives (SLOs).</p> <p>You can also monitor your Oracle Identity Management environment from an end-user perspective using synthetic service tests. These tests simulate key end-user activities, such as logging into an application with a single sign-on. The tests are run through beacons from locations within your network to actively measure the performance and availability of your Identity and Access services.</p>

Licensed Links

The sections beginning with [Identity Management 10g Components](#) describe the licensed pages and links of this pack that apply to the following Identity Management-specific targets within Enterprise Manager.

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
- 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
- Hosts running Identity Management components

Identity Management 11g Targets

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

Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition) Targets

- Oracle Directory Server Enterprise Edition
- Hosts running Oracle DSEE components

Identity Management 10g Components

- From the Grid Control Home page, click the **Targets** tab, then **Identity and Access**. All links on the Identity and Access page are licensed features of this pack.

Access Manager — Access Server

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Access Manager – Access Server**. The Access Manager – Access Server Home page appears. Alternatively, click the **Targets** tab, then **Identity and Access**. On the Identity and Access page, select a target of type **Access Manager - Access Server**. The following items are licensed features of this pack:
 - **Black Out** button
 - **Availability** link
 - **Start/Stop** button
 - All links in the **Associated Directory Server Information** section
 - All links in the **Alerts** section
 - All links in the **Host Alerts** section
 - All links in the **Configuration** section
 - All links in the **Related Links** section
- From the Access Manager – Access Server Home page, select the **Performance** sub-tab. All features on the Access Manager – Access Server Performance page are licensed features of this pack.

Access Manager — Identity Server

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Access Manager – Identity Server**. The Access Manager – Identity Server Home page appears. Alternatively, click the **Targets** tab, then **Identity and Access**. On the Identity and Access page, select a target of type **Access Manager - Identity Server**. The following items are licensed features of this pack:
 - **Black Out** button
 - **Availability** link
 - **Start/Stop** button
 - All links in the **Associated Directory Server Information** section
 - All links in the **Alerts** section
 - All links in the **Host Alerts** section
 - All links in the **Configuration** section
 - All links in the **Related Links** section

- From the Access Manager – Identity Server Home page, select the **Performance** sub-tab. All features on the Access Manager – Identity Server Performance page are licensed features of this pack.

Access Manager — Access System

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Access Manager – Access System**. The Access Manager – Access System Home page appears. Alternatively, click the **Targets** tab, then **Identity and Access**. On the Identity and Access page, select a target of type **Access Manager - Access System**. All features on the System Home page are licensed features of this pack.
- From the System Home page, select the **Charts** sub-tab. All features on the System Charts page are licensed features of this pack.
- From the System Home page, select the **Administration** sub-tab. All features on the System Administration page are licensed features of this pack.
- From the System Home page, select the **Components** sub-tab. All features on the System Components page are licensed features of this pack.
- From the System Home page, select the **Topology** sub-tab. All features on the System Topology page are licensed features of this pack.

Access Manager — Identity System

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Access Manager – Identity System**. The Access Manager – Identity System Home page appears. Alternatively, click the **Targets** tab, then **Identity and Access**. On the Identity and Access page, select a target of type **Access Manager - Identity System**. All features on the System Home page are licensed features of this pack.
- From the System Home page, select the **Charts** sub-tab. All features on the System Charts page are licensed features of this pack.
- From the System Home page, select the **Administration** sub-tab. All features on the System Administration page are licensed features of this pack.
- From the System Home page, select the **Components** sub-tab. All features on the System Components page are licensed features of this pack.
- From the System Home page, select the **Topology** sub-tab. All features on the System Topology page are licensed features of this pack.

Identity Federation Server

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Identity Federation Server**. The Identity Federation Server Home page appears. All features on the System Home page are licensed features of this pack. Alternatively, click the **Targets** tab, then **Identity and Access**. On the Identity and Access page, select a target of type **Identity Federation Server**. The following items are licensed features of this pack:
 - **Black Out** button
 - **Availability** link
 - All links in the **User Data Store** section
 - All links in the **Federation Data Store** section

- All links in the **Alerts** section
- All links in the **Host Alerts** section
- All links in the **Related Links** section
- From the Identity Federation Server Home page, select the **Infrastructure Performance** sub-tab. All features on the Infrastructure Performance page are licensed features of this pack.
- From the Identity Federation Server Home page, select the **Service Provider Performance** sub-tab. All features on the Service Provider Performance page are licensed features of this pack.
- From the Identity Federation Server Home page, select the **Identity Provider Performance** sub-tab. All features on the Identity Provider Performance page are licensed features of this pack.
- From the Identity Federation Server Home page, select the **Peer Provider Performance** sub-tab. All features on the Peer Provider Performance page are licensed features of this pack.

Identity Federation System

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Identity Federation System**. The Identity Federation System Home page appears. Alternatively, click the **Targets** tab, then **Identity and Access**. On the Identity and Access page, select a target of type **Identity Federation System**. All features on the System Home page are licensed features of this pack.
- From the System Home page, select the **Charts** sub-tab. All features on the System Charts page are licensed features of this pack.
- From the System Home page, select the **Administration** sub-tab. All features on the System Administration page are licensed features of this pack.
- From the System Home page, select the **Components** sub-tab. All features on the System Components page are licensed features of this pack.
- From the System Home page, select the **Topology** sub-tab. All features on the System Topology page are licensed features of this pack.

Identity Manager Repository

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Identity Manager Repository**. The Identity Manager Repository Home page appears. Alternatively, click the **Targets** tab, then **Identity and Access**. On the Identity and Access page, select a target of type **Identity Manager Repository**. The following items are licensed features of this pack.
 - **Black Out** button
 - **Availability** link
 - All links in the **Provisioning** section
 - All links in the **Associated Remote Managers** section
 - All links in the **Alerts** section
 - All links in the **Host Alerts** section
 - All links in the **Related Links** section

- From the Identity Manager Repository Home page, select the **Performance** sub-tab. All features on the Identity Manager Repository Performance page are licensed features of this pack.

Identity Manager Server

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Identity Manager Server**. The Identity Manager Server Home page appears. Alternatively, click the **Targets** tab, then **Identity and Access**. On the Identity and Access page, select a target of type **Identity Manager Server**. The following items are licensed features of this pack.
 - **Black Out** button
 - **Availability** link
 - All links in the **Alerts** section
 - All links in the **Host Alerts** section
 - All links in the **Related Links** section
- From the Identity Manager Server Home page, select the **Performance** sub-tab. All features on the Identity Manager Server Performance page are licensed features of this pack.

Identity Manager System

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Identity Manager System**. The Identity Manager System Home page appears. Alternatively, click the **Targets** tab, then **Identity and Access**. On the Identity and Access page, select a target of type **Identity Manager System**. All features on the System Home page are licensed features of this pack.
- From the System Home page, select the **Charts** sub-tab. All features on the System Charts page are licensed features of this pack.
- From the System Home page, select the **Administration** sub-tab. All features on the System Administration page are licensed features of this pack.
- From the System Home page, select the **Components** sub-tab. All features on the System Components page are licensed features of this pack.
- From the System Home page, select the **Topology** sub-tab. All features on the System Topology page are licensed features of this pack.

Identity Management 11g Components

Identity Management 11g target types consist of:

Oracle Internet Directory
 Identity Federation Server
 Directory Integration Platform Server
 Oracle Virtual Directory
 Oracle Access Manager
 Oracle Access Manager Cluster
 Oracle Adaptive Access Manager
 Oracle Adaptive Access Manager Cluster
 Oracle Identity Manager
 Oracle Identity Manager Cluster

- From the Grid Control Home page, click the **Targets** tab, then **Identity and Access**. All links on the Identity and Access page are licensed features of this pack.
- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select any of the target types referenced above. Alternatively, click the **Targets** tab, then **Identity and Access**. On the Identity and Access page, select any of the target types referenced above. The following items under the drop-down menu are licensed features of this pack:
 - **Home**
 - **Monitoring**
 - **Control**
 - **Configuration** (currently available: Oracle Internet Directory, Identity Federation Server, Directory Integration Platform Server, Oracle Virtual Directory)
 - **Job Activity**
 - **Reports**
 - **WebLogic Server Administration Console**
 - **Fusion Middleware Control**
 - **Target Setup**
 - **General Information**

Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition)

With the Oracle System Monitoring Plug-in for Oracle Directory Server, a simple target discovery is also provided for Oracle Directory Server Enterprise Edition (formerly Sun Java Directory Server Enterprise Edition) 6.x and 7.x, as well as ODSEE 11gR1 and 11gR1PS1. The following Oracle DSEE target type is supported:

Oracle Directory Server Enterprise Edition

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select any target of the target type **Oracle Directory Server Enterprise Edition**. All links and items under this target are licensed features of this pack.

Generic Service or Web Application Associated with Identity Management Systems

With the Management Pack for Identity Management, users can create targets of type Generic Service or Web Application associated with any of the monitored Identity Management Systems: Access Manager – Access System, Access Manager – Identity System, Identity Federation System, Identity Manager System, as well as the Identity and Access System.

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Generic Service** that is associated with any of the monitored Identity Management Systems listed above. The Generic Service Home page appears. All features on the Generic Service Home page are licensed features of this pack.
- From the Service Home page, select the **Charts** sub-tab. All features on the Service Charts page are licensed features of this pack.

- From the Service Home page, select the **Test Performance** sub-tab. All features on the Test Performance page are licensed features of this pack.
- From the Service Home page, select the **System** sub-tab. All features on the System page are licensed features of this pack.
- From the Service Home page, select the **Topology** sub-tab. All features on the Service Topology page are licensed features of this pack.
- From the Service Home page, select the **Monitoring Configuration** sub-tab. All features on the Monitoring Configuration page are licensed features of this pack.
- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Web Application** that is associated with any of the monitored Identity Management Systems: Access Manager – Access System, Access Manager – Identity System, Identity Federation System, and Identity Manager System. The Web Application Home page appears. All features on the Web Application Home page are licensed features of this pack.
- From the Web Application Home page, select the **Charts** sub-tab. All features on the Charts page are licensed features of this pack.
- From the Web Application Home page, select the **Test Performance** sub-tab. All features on the Test Performance page are licensed features of this pack.
- From the Web Application Home page, select the **Page Performance** sub-tab. All features on the Page Performance page are licensed features of this pack.
- From the Web Application Home page, select the **Request Performance** sub-tab. All features on the Request Performance page are licensed features of this pack.
- From the Web Application Home page, select the **System** sub-tab. All features on the **System** page are licensed features of this pack.
- From the Web Application Home page, select the **Topology** sub-tab. All features on the Topology page are licensed features of this pack.
- From the Web Application Home page, select the **Monitoring Configuration** sub-tab. All features on the Monitoring Configuration page are licensed features of this pack.

Hosts Running Identity Management Components

- From the Grid Control Home page, click the **Targets** tab, then **All Targets**. On the All Targets page, select a target of type **Host** (where Identity Management Components are running). The Host Home page appears. The following items are licensed features of this pack.
 - **Black Out** button
 - **Availability** link
 - **View Current Users** -link
 - All links in the **Alerts** section
 - All links in the **Related Links** section
- From the Host Home page, select the **Performance** sub-tab. All features on the Host Performance page are licensed features of this pack.
- From the Host Home page, select the **Administration** sub-tab. All features on the Host Administration page are licensed features of this pack.

Note: The Administration page is only available for Linux operating systems.

- From the Host Home page, select the **Targets** sub-tab. All features on the Host Targets page are licensed features of this pack.

Other Infrastructure Management

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

- [Configuration Management Pack for Applications](#)
- [Management Pack for Non-Oracle Middleware](#)
- [Provisioning and Patch Automation Pack](#)
- [Deploying Management Plug-Ins for Oracle Enterprise Manager](#)
- [Oracle System Monitoring Plug-ins For Hosts](#)
- [System Monitoring Plug-Ins for Storage](#)
- [System Monitoring Plug-Ins for Network Devices](#)
- [System Monitoring Plug-Ins for Non-Oracle Middleware](#)
- [System Monitoring Plug-Ins for Non-Oracle Databases](#)
- [Management Connectors](#)

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. This pack provides capabilities such as search and compare across all systems, configuration monitoring, and policy management and compliance, ensuring consistency across deployments.

You can access the Configuration Management Pack for Applications functionality through Enterprise Manager licensed links and by installing the Configuration Change Console and Application Configuration Console. All three of these components comprise the features provided by the Configuration Management Pack for Applications.

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

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

Features

The Configuration Management Pack for Applications includes the features shown in [Table 6–1](#).

Table 6–1 Feature Highlights of Configuration Management Pack for Applications

Feature	Benefit
Configuration management	Collect, search, compare, track changes, and analytically report hardware and software configuration data.
Configuration analysis	View and analyze configurations, deployments, and installations.
Policy management	Manage policies, including policy notifications. Ensure consistency of deployments and adherence to operation standards. Includes policy violation notifications. Utilize out-of-box policies or generate user-defined policies to meet your specific operational best practices, industry, or regulatory compliance requirements.
Policy groups	Provide structured collection of security configuration rules against which targets can be measured or judged. Create your own policy groups to specifically address your operational processes and best practice needs. Choose from the library of out-of-box or user-defined policies to group policies to meet your specific needs. This capability enables you to create, edit, and delete policy groups. This feature is accessible from the Policy Group sub-tab under the Compliance tab.
Real-time configuration change detection	Provide real-time configuration change detection and automation of compliance frameworks, such as Sarbanes-Oxley (SOX), Information Technology Infrastructure Library (ITIL), and Payment Card Industry (PCI) data security standards. Oracle Configuration Management Pack for Applications solves this need with a centralized Configuration Change Console that includes out-of-box and user-defined policies and controls.

Table 6–1 (Continued) Feature Highlights of Configuration Management Pack for

Feature	Benefit
Application configuration management	<p>Provide a comprehensive solution for managing the application infrastructure underlying mission-critical applications. The Application Configuration Console provides an automated “gold master” methodology to application infrastructure management providing IT infrastructure personnel the ability to:</p> <ul style="list-style-type: none"> ▪ Capture the current state of configuration settings for IT assets. ▪ Monitor these IT assets for changes. ▪ Automate processes for provisioning configuration changes along with setting up new environments throughout the application life-cycle — from development through testing, then production.

To use these features, you must purchase the license for the Configuration Management Pack for Applications and install the pack. Some features for the pack are accessed only when you are in Grid Control mode. You can navigate to these features in several ways. The sections that follow discuss the licensable features of the Configuration Management Pack for Applications, and itemize the links that require licensing of the pack.

Licensed Links

The following licensed pages and links of this pack apply to host software, platform, Oracle software, and non-Oracle software excluding the Oracle Database. For management of the Oracle Database, you must purchase the Configuration Management Pack for Oracle Database.

- **Grid Control Home page:**
 - All links in the **All Targets Policy Violations** section
 - Database, Hardware, and Operating System related information in the **Deployments Summary** section
 - All links in the **Security Policy Violations** section
 - All links in the **Critical Patch Advisories for Oracle Homes** section
- From the **Grid Control Home** page, click the **Deployments** tab. On the **Deployments page**, the following items are licensed as part of the pack:
 - All links in the **Configuration** and **Client Configurations** sections
- From the **Grid Control Home** page, select the **Compliance** tab to display the **Policy Violations page**, which is grouped in the **Violations** sub-tab. All links, sub-navigation tabs, and features available on or linked to from the **Grid Control Policies Violations** page for policies are licensed as part of this pack.
- From the **Grid Control Home** page, select the **Compliance** tab, then the **Policy Groups** sub-tab. On the **Grid Control Policy Group Evaluation Results** page, all links and features are licensed as a part of this pack.
- From the **Grid Control Home** page, select the **Compliance** tab, then the **Security at a Glance** sub-tab. On the **Grid Control Security at a Glance** page, all links and features are licensed as a part of this pack.
- From the **Grid Control Hosts** page, click a specific host to display the **Host Home page**. The following links are licensed as part of the pack:

- All links in the **Security** section
- Under **Related Links**, the following links are licensed:
 - * **Deployments**
 - * **Metric and Policy Settings**
- From the **Host Home page**, click the **Targets** tab. The following links and columns are licensed:
 - **Policy Violations** and associated links
 - **Compliance Score (%)**
- From the **Host Home page**, click the **Configuration** tab. The following buttons are licensed:
 - **Save**
 - **History**
 - **Compare Configuration**
 - **Compare to Multiple Configurations**
- From the **Grid Control Home page**, click the **Targets tab**, then select the **Systems sub-tab**. On the **Systems page**, the following items are licensed as part of the pack:
 - **Policy Violations** links
- From the **Systems page**, click any system **Name**. On the **System Home page**, everything is licensed as part of the pack except for the Status and Alerts sections.
- From the **Grid Control Home page**, click the **Targets tab**, then select the **Groups sub-tab**. On the **Groups page**, the following items are licensed as part of the pack:
 - **Policy Violations** links
- From the **Groups page**, click any group **Name**. On the **Group Home page**, everything is licensed as part of the pack except for the Status and Alerts sections.
- From the **Groups Home page**, click the **Administration** tab. The following links and features are licensed features of the pack:
 - **Hardware and Operating Systems** related information in the **Deployments Summary** section
 - **Host Operating System and Hardware Summaries** selection for the **Configuration Searches** section
- From the **Groups Home page**, click the **Members** tab. The following links and features are licensed features of the pack:
 - All links and the information in the **Policy Violations** column
- Click the **Setup** link on the upper right corner of the Enterprise Manager console, then click the **Monitoring Templates** link. On the **Monitoring Templates** page, click any Name. The **Policies** sub-tab on the **View Monitoring Template** page is a licensed feature of the pack.

Middleware Page

From the Targets page, when you select the Middleware sub-tab, you can access information for all of your middleware software.

- In the **Policy Violations** column of the Middleware page, the numbers in this column are links. These links and all subsequent features and functions are part of the Configuration Management Pack for Applications.

Middleware Targets

You can access a specific Middleware target from the Middleware sub-tab under the Targets tab. From the Middleware page, select a specific Middleware target.

- From the Middleware Home Page and subsequent pages, the following links and subsequent features and functions are licensed as part of the Configuration Management Pack for Applications.
 - All links and subsequent features and functions for **Policies, Policy Violations, Disable Policies, and Policy Groups** are licensed as part of the Configuration Management Pack for Applications.
 - Links to reports related to **Policy Violations, Disabled Policies and Policy Groups** sections are licensed as part of the Configuration Management Pack for Applications.
 - All links in the **Policy Violation Column** are licensed as part of the Configuration Management Pack for applications.

Licensed Reports

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

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

Additional Licensed Features

With the purchase of the Configuration Management Pack for Applications, you also are entitled to the features described in the following sections. These features are restricted to the targets or software instances running on the CPUs where the Configuration Management Pack for Applications is licensed. This applies to Oracle and non-Oracle software excluding the Oracle Database. For management of Oracle Database, the Configuration Management Pack for Oracle Database must be purchased.

Configuration Change Console

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

Real-time Change Detection

The Configuration Change Console is a policy-based system designed to help organizations and administrators support their IT compliance goals and help deliver the level of service expected by their users. The console includes a set of predefined

frameworks created by industry experts to meet common compliance requirements. This enables IT departments to quickly and easily demonstrate compliance with government regulations and industry standards such as SOX, PCI, and ITIL.

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

The Configuration Change Console automates the detection and capture of user and application actions that result in changes to the infrastructure without requesting or requiring user input. This automates the compliance audit trail and minimizes the time required to uncover compliance breaches.

Examples of components monitored for configuration change include:

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

Integration Capabilities

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

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

Configuration Change Console Restricted-use Licensing

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

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

Oracle includes restricted-use licenses for Oracle Database (Enterprise Edition) with licenses of the Configuration Change Console Release. If you want to use the

Oracle Database (Enterprise Edition) not solely for the purposes of running Oracle the Configuration Change Console Release Server, you must purchase full-use licenses for Oracle Database (Enterprise Edition).

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

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

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

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

Application Configuration Console

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

The Application Configuration Console provides:

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

Application Configuration Console Restricted-use Licensing

Oracle Enterprise Manager 10g Application Configuration Console includes restricted-use licenses for Oracle Database (Enterprise Edition) solely for the purpose

of running the Oracle Enterprise Manager 10g Application Configuration Console Server.

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

Oracle includes restricted-use licenses for Oracle Database (Enterprise Edition) with licenses of Oracle Enterprise Manager 10g Application Configuration Console. If you want to use the Oracle Database (Enterprise Edition) not solely for the purposes of running Oracle Enterprise Manager 10g Configuration Change Console Release Server, you must purchase full-use licenses for Oracle Database (Enterprise Edition).

Licensed Repository Views

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

- **Configuration Views**

- mgmt\$db_tablespace
- mgmt\$db_datafiles
- mgmt\$db_controlfiles

- **Oracle Home Patching**

- MGMT\$CPF_ADVISORY_INFO
- MGMT\$CPF_HOMES_INFO
- MGMT\$CPF_PATCH_INFO
- MGMT\$EM_HOMES_PLATFORM
- MGMT\$HOMES_AFFECTED
- MGMT\$PATCH_ADVISORIES
- MGMT\$APPL_PATCH_AND_PATCHSET

- MGMT\$APPLIED_PATCHES
- MGMT\$APPLIED_PATCHSETS
- **Linux Patching**
 - MGMT\$HOSTPATCH_HOSTS
 - MGMT\$HOSTPATCH_GROUPS
 - MGMT\$HOSTPATCH_GRP_COMPL_HIST
 - MGMT\$HOSTPATCH_HOST_COMPL
- **Security Views**
 - MGMT\$ESA_ALL_PRIVS_REPORT
 - MGMT\$ESA_ANY_DICT_REPORT
 - MGMT\$ESA_ANY_PRIV_REPORT
 - MGMT\$ESA_AUDIT_SYSTEM_REPORT
 - MGMT\$ESA_BECOME_USER_REPORT
 - MGMT\$ESA_CATALOG_REPORT
 - MGMT\$ESA_CONN_PRIV_REPORT
 - MGMT\$ESA_CREATE_PRIV_REPORT
 - MGMT\$ESA_DBA_GROUP_REPORT
 - MGMT\$ESA_DBA_ROLE_REPORT
 - MGMT\$ESA_DIRECT_PRIV_REPORT
 - MGMT\$ESA_EXMPT_ACCESS_REPORT
 - MGMT\$ESA_KEY_OBJECTS_REPORT
 - MGMT\$ESA_OH_OWNERSHIP_REPORT
 - MGMT\$ESA_OH_PERMISSION_REPORT
 - MGMT\$ESA_POWER_PRIV_REPORT
 - MGMT\$ESA_PUB_PRIV_REPORT
 - MGMT\$ESA_SYS_PUB_PKG_REPORT
 - MGMT\$ESA_TABSP_OWNERS_REPORT
 - MGMT\$ESA_TRC_AUD_PERM_REPORT
 - MGMT\$ESA_WITH_ADMIN_REPORT
 - MGMT\$ESA_WITH_GRANT_REPORT
- **Client Configurations Views**
 - MGMT\$CSA_COLLECTIONS
 - MGMT\$CSA_FAILED
 - MGMT\$CSA_HOST_OS_COMPONENTS
 - MGMT\$CSA_HOST_SW
 - MGMT\$CSA_HOST_COOKIES
 - MGMT\$CSA_HOST_CUSTOM

- MGMT\$CSA_HOST_RULES
- MGMT\$CSA_HOST_CPUS
- MGMT\$CSA_HOST_IOCARDS
- MGMT\$CSA_HOST_NICS
- MGMT\$CSA_HOST_OS_PROPERTIES
- MGMT\$CSA_HOST_OS_FILESYSTEMS
- MGMT\$ECM_CONFIG_HISTORY
- MGMT\$ECM_CONFIG_HISTORY_KEY1
- MGMT\$ECM_CONFIG_HISTORY_KEY2
- MGMT\$ECM_CONFIG_HISTORY_KEY3
- MGMT\$ECM_CONFIG_HISTORY_KEY4
- MGMT\$ECM_CONFIG_HISTORY_KEY5
- MGMT\$ECM_CONFIG_HISTORY_KEY6
- MGMT\$HW_NIC
- MGMT\$OS_COMPONENTS
- MGMT\$OS_FS_MOUNT
- MGMT\$OS_HW_SUMMARY
- MGMT\$OS_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 for Non-Oracle Middleware

This pack improves the availability and performance of Java applications with low overhead deployed on Non-Oracle Middleware (such as, IBM WebSphere Application Server, JBoss Application Server, and Apache Tomcat), as well as providing in-depth diagnostics. It enables administrators to proactively monitor application performance and diagnose the root cause of performance problems, such as application crashing and hanging in a production environment, which may severely impact businesses.

Features

This pack includes the following components:

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

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

- JRockit Mission Control, which is applicable for Application Servers and standalone Java applications running on JRockit JVM.

The Management Pack for Non-Oracle Middleware includes the features shown in [Table 6–2](#).

Table 6–2 Feature Highlights of Management Pack for Non-Oracle Middleware

Feature	Benefit
Performance monitoring	Provide real-time and historical performance monitoring. Reduces the complex tasks of diagnosing and correcting performance problems for your targets.
Advanced alert management	Provide notification methods, rules and schedules, metric history and associated drill-downs, ability to set blackouts, associate corrective actions with alerts, user-defined metrics, metric snapshots, and monitoring templates.
Application dependency and performance monitoring	Automatically model and discover management applications displaying multiple views of the application, including the topology, function/flow, and architectural views.
Business transaction monitoring	Discover, record, and correlate transactions as they flow across components that may span multiple JVMs, containers, and platforms.
Real-time monitoring of JVM	<ul style="list-style-type: none"> ■ Summary view of resource bottlenecks affecting performance, such as the database, I/O, CPU, and locks.
Trace in-flight transactions	<ul style="list-style-type: none"> ■ View request performance problems in real time. ■ Analyze time spent in each resource bottleneck (extend to each Java method).
Memory leak detection and analysis	<ul style="list-style-type: none"> ■ Memory leak analysis in production. ■ Neither developers nor development tools are required to analyze memory leaks. ■ Unnecessary to reproduce problems in a test environment.

Management Pack for Non-Oracle Middleware Licensed Links

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

- From the Enterprise Manager home page:
 - Select the **Targets** tab, then the **Web Applications** sub-tab. Click any Web Application Name in the table. On the Web Application page that appears, the **Page Performance** tab is a licensed feature of the Management Pack for Non-Oracle Middleware.
 - Click the **Page Performance** property page. All links, buttons, and drill-downs on the **Page Performance** page are licensed features of the Management Pack for Non-Oracle Middleware.
 - From the Page Performance page, the following Related Links are also part of the Management Pack for Non-Oracle Middleware:
 - * Advanced Analysis
 - * Alert History
 - * Blackouts
 - * Metric Baselines
- All the pages in **Oracle JVM Diagnostics** are licensed features of the Management Pack for Non-Oracle Middleware.
- From the **Enterprise Manager Home** page:
 - Select the **Targets** tab, then the **Middleware** sub-tab. From the Middleware page, click an **IBM WebSphere Application Server** link. The following links in the IBM WebSphere Application Server home page are licensed features of the Management Pack for non-Oracle Middleware:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section
 - From the IBM WebSphere Application Server home page, click the **Performance** tab. All of the links in the **Performance Links** section of the IBM WebSphere Application Server Performance page are licensed features of the Management Pack for non-Oracle Middleware.
- From the **Enterprise Manager Home** page:
 - Select the **Targets** tab, then the **Middleware** sub-tab. From the Middleware page, click a **JBoss Application Server** link. The following links in the JBoss Application Server home page are licensed features of the Management Pack for non-Oracle Middleware:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section
 - From the JBoss Application Server home page, click the **Performance** tab. All of the links in the **Performance Links** section of the JBoss Application Server

Performance page are licensed features of the Management Pack for non-Oracle Middleware.

- From the **Enterprise Manager Home** page:
 - Select the **Targets** tab, then the **Middleware** sub-tab. From the Middleware page, click an **Apache Tomcat** link. The following links in the Apache Tomcat Application Server home page are licensed features of the Management Pack for non-Oracle Middleware:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section
 - From the **Apache Tomcat** home page, click the **Reports** tab. All of the links in the **Reports Links** section of the Apache Tomcat Reports page are licensed features of the Management Pack for non-Oracle Middleware.
- All the links under **Oracle JVM Diagnostics** in the Oracle Application Diagnostics for Java (AD4J) are licensed features of the Management Pack for Non-Oracle Middleware.

Application Dependency and Performance within Management Pack for Non-Oracle Middleware

Oracle Application Dependency and Performance models and monitors Java EE and Web Services applications to enable users to quickly identify bottlenecks, performance trends, and overall application efficiency. This is restricted to Java EE and web services within the Management Pack for Non-Oracle Middleware.

Features

Oracle Application Dependency and Performance within the Management Pack for Non-Oracle Middleware includes the features shown in [Table 6–3](#).

Table 6–3 Feature Highlights of Application Dependency and Performance Within Management Pack for Non-Oracle Middleware

Feature	Benefit
Automatic modeling and discovery	Automatically model and discover management applications displaying multiple views of the application, including the topology, function/flow, and architectural views.
Contextual visibility into J2EE and web service metrics	Provide drill-down contextual visibility into Java EE and web service metrics, enabling administrators to both quickly understand and analyze their application to identify potential bottlenecks and performance trends, as well as prepare for capacity changes and overall application management.
Transaction tracing	Trace transactions for Java EE metrics both vertically through the application stack as well as horizontally across containers.
Metrics visibility at any layer	Automatically generate customized dashboards and views to view metrics at any layer in the application through graphs and tables.
Service-level objectives	Provide service-level objectives (SLOs) at any point within the architecture for indicators and alerts.

Licensed Links

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

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

- From the upper-left navigation pane, click on the **Monitor** tab. The following links, including all of the associated links in the right-hand pane, and any pages, views, or links as well as the items they contain are included licensed features:
 - **Oracle Enterprise Manager** link, and all tabbed pane links and data available in the right-hand pane as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - **Web Services** link, all sub-nodes of Web Services, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - **Services** link, all sub-nodes of Services, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - **Processes** link, all sub-nodes of Processes, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - **Applications** link, all sub-nodes of Applications, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - **Resources** link, all sub-nodes of Resources, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
 - **CAMM** link, all sub-nodes of CAMM, and all tabbed pane links and data available in the right-hand pane, as well as all links available from any of the items in the tool bar or by double-clicking an item in the right-hand pane
- From the upper-left navigation area, click the **Custom Views** tab link. All navigation tree nodes in the lower-left navigation tree as well as all tabbed pane links and data available in the right pane are licensed features.
- From the lower-left navigation area, click the **Dashboard** tab link. All navigation tree nodes in the lower-left navigation tree as well as all tabbed pane links and data available in the right pane are licensed features.
- All of the drop-down menu items and sub-items, navigation bars, lower information bar (bottom of interface), and time frame modification features at the top of the interface are licensed features, as well as the following accessible links from these drop-down menus:

- Manager —> **Status**
- Manager —> **Logout**
- Queries —> **URL Query**
- Dashboard —> **Custom Views**
- Dashboard —> **Set Custom Dashboard**
- Help —> **Help Topics and all links available on subsequent pages**
- Help —> **Memory Information**
- Help —> **About Oracle Application Dependency and Performance**

Additional Licensing Information

The Application Dependency and Performance technology within the Management Pack for Non-Oracle Middleware contains AspectJ BCEL 1.5.4 and Core Tools (the "EPL Programs"). The authors and/or contributors to the EPL Programs disclaim (i) all warranties and conditions, express and implied, including warranties or conditions of title and non-infringement, and implied warranties or conditions of merchantability and fitness for a particular purpose and (ii) all liability for damages, including direct, indirect, special, incidental and consequential damages, such as lost profits.

Any provision of any license provided by Oracle is offered by Oracle alone and not by any other party. The source code for the EPL Programs and a copy of the Eclipse Public License is available from Oracle at the following URL:

<http://oss.oracle.com/projects/aspectj/src/trunk/>

IMPORTANT NOTICES: The following source and properties files were modified by Oracle in order to resolve bugs found in the base AspectJ 1.5.4 code base. Therefore, the files have been publicly published at the following URL on Oracle's public website in accordance with the Eclipse Public License:

<http://oss.oracle.com/projects/aspectj/src/trunk/aspectj1.5.4.zip>

Business Transaction Management Within Management Pack for Non-Oracle Middleware

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

Table 6–4 Feature Highlights for BTM within Management Pack for Non-Oracle Middleware Application Dependency and Performance.

Table 6–4 Feature Highlights of BTM Within Management Pack for Non-Oracle Middleware

Feature	Benefit
Transaction discovery	Discover, record, and correlate transactions as they flow across components that may span multiple JVMs, containers, and platforms.

Table 6–4 (Continued) Feature Highlights of BTM Within Management Pack for Non-Oracle Middleware

Feature	Benefit
Contextual visibility into Java EE and .NET metrics	Provide drill-down contextual visibility into Java EE and .NET metrics, enabling administrators to both quickly understand and analyze distributed applications to identify potential bottlenecks and performance trends, as well as prepare for capacity changes and overall application management.
Transaction-level agreements	Provide transaction-level objectives (TLOs) that span multiple interacting components
Exception management	Transaction alerting and searching to locate exceptions and errors in transactions that span multiple application components.
Closed-loop governance	Provisions performance report cards to UDDI v.3 compliant registries

Table 6–5 lists the technologies licensed for various categories under BTM within Management Pack for Non-Oracle Middleware.

Table 6–5 Licensed Technologies of BTM Within Management Pack for Non-Oracle Middleware

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

Provisioning and Patch Automation Pack

The Provisioning and Patch Automation Pack automates deployment of software, applications, and patches. It provides easy and scalable critical data center operations, resulting in lower operational risk and cost of ownership.

This pack provides functionality for "bare-metal" provisioning of operating systems and software images (such as Oracle Clusterware, Real Application Clusters,

Automatic Storage Management, and Oracle Application Servers, and Oracle Fusion Middleware) as well as cloning of existing installations.

Enterprise Manager version 11g enables you to also orchestrate the provisioning and patching process through Deployment Procedures. These are a set of "best practices" shipped out-of-box that you can also extend by customizing according to your needs. You can reuse the deployment procedures, and you can export and import them across environments that would involve creation of a single procedure to do operations across test environments and production. The Deployment Procedures are also hot-pluggable, and enable you to add procedures as Oracle releases them to My Oracle Support.

The following sections describe the features that are included as part of the Provisioning and Patch Automation pack for Oracle Enterprise Manager.

Provisioning and Patch Automation Pack Features Formerly Included in the Configuration Management Pack

The following features were previously part of the Configuration Management Pack in Enterprise Manager version 10g 10.1, and are now part of the Provisioning and Patch Automation pack.

Table 6–6 Former Configuration Management Pack Features in Provisioning and Patch Automation Pack

Feature	Description
Critical Patch Facility	<p>Grid Control assesses vulnerabilities by examining your enterprise configuration to determine which Oracle homes have not applied one or more software patches that have been identified as critical. Grid Control provides a list of critical patch advisories and the Oracle homes to which the critical patches should be applied.</p> <p>The Critical Patch Facility enables administrators to download the Critical Patch metadata from My Oracle Support (formerly MetaLink) and upload it to the repository. The "RefreshFromMetalink" job can then use this metadata to perform Critical Patch calculations in offline mode. Administrators are alerted to security updates even if the Management Service is not connected to My Oracle Support. The Critical Patch Facility's offline mode makes it easy to keep your environment patched to the latest level.</p> <p>Only the Critical Patch Facility advisors remain in the Configuration Management Pack.</p>
Database Cloning	<p>You can clone a database instance using the Clone Database feature of Grid Control. Clone Database clones a database instance to an existing Oracle home. To create a new Oracle home into which to clone the instance, use the Clone Oracle Home tool to create a new Oracle home, then use the Clone Database tool to clone the instance to that cloned home.</p>
ORACLE_HOME Cloning	<p>Use this feature to clone existing Oracle home directories. After you have configured an Oracle home into a desirable state — where you have chosen particular installation options, applied required patches, and tested it — you can clone this Oracle home to one or more hosts using Grid Control's "Clone Oracle Home" tool.</p>
ORACLE_HOME and Target Patching	<p>Use this feature to patch an ORACLE_HOME.</p>

Features Shared By Provisioning and Patch Automation Pack and Configuration Management Packs

The Provisioning and Patch Automation pack and Configuration Management packs share the following features.

Table 6–7 Features Shared by Provisioning and Patch Automation Pack and Configuration Management Packs

Feature	Description
Security at a Glance	This feature is completely shared between the Provisioning and Patch Automation Pack and the Configuration Management packs.
Patch Recommendations	The Patch Recommendations feature from the Integration with My Oracle Support is common to both the Provisioning and Patch Automation Pack and the Configuration Management packs.

Features Exclusive to the Provisioning and Patch Automation Pack

The following features are available only in the Provisioning and Patch Automation Pack.

Table 6–8 Features Exclusive to Provisioning and Patch Automation Pack

Feature	Description
Software Library	Creates and maintains a library of reference software images.
Bare Metal Provisioning	Deploys operating systems and software to bare metal servers.
Extending Cluster ^a	Extends RAC clusters or Oracle Application Server middleware.
Adding a Database Instance	Adds a database instance to Enterprise Manager.
RAC Database Provisioning	Provisions an entire RAC cluster, including Clusterware and Automatic Storage Management.
Single-instance RAC Conversion	Converts a database to a RAC cluster.
One-click RAC Extend	Extends RAC clusters with a single-click procedure.
Delete/Scale down RAC	Deletes or scales down nodes of a RAC cluster.
Patch Oracle Software	Patches Oracle software (single-instance and RAC databases, Oracle Clusterware, ASM, and Oracle Application servers).
Operating System Patching	Patches Linux, Solaris, and Windows operating systems.
Middleware Cloning (Applies to Oracle Fusion Middleware, Oracle WebLogic Server, and Oracle Application Server)	<ul style="list-style-type: none"> Clone Oracle Fusion Middleware 11g, Oracle WebLogic Server, and Oracle Application Server. Extend Oracle WebLogic Domain, Oracle Application Server DCM Managed Clusters, and Oracle Application Server Clusters. Clone Forms and Report Services version 9.0.4 and 10.1.2.

^a Feature that is part of the Oracle Enterprise Manager Provisioning and Patch Automation Pack for versions 11g 11.1.0.1 and later.

Provisioning and Patch Automation Pack Licensed Links

The list that follows itemizes the links that require licensing of the Provisioning and Patch Automation Pack. **You can navigate** to these features in several ways. The instructions below assume that you begin from the main Grid Control Home page.

- From the **Enterprise Manager Home page**:
 - Select any of the links in the **Security Violations** section. On the resulting **Violations page**, the **Security At a Glance** tab is a licensed feature of the Provisioning and Patch Automation Pack.

- Under the section **Critical Patch Advisories for Oracle Homes**, any **Patch button** is a licensed feature of the pack.
- From the **Deployments** page linked from the **Enterprise Manager Home** page:
 - Under the section **Critical Patch Advisories for Oracle Homes**, any **Patch button** is a licensed feature of the pack.
 - Under the **Patching** section, the links **Patching through Deployment Procedures**, **View/Upload Patch**, and **Patch Linux Hosts** are all licensed under the Provisioning and Patch Automation Pack.
 - Under the **Cloning** section, the links **Clone Database** and **Clone Oracle Home** are both part of the Provisioning feature.
 - Under the Deployment Procedure Manager section, the general link **Deployment Procedures** and specific functionality procedures links, such as **RAC Provisioning Procedures**, **Application Server Provisioning Procedures**, and **Patch Procedures** are all licensed under the Provisioning and Patch Automation Pack.

Deployment Procedures associated with Oracle Application Server and Oracle Fusion Middleware are licensed under the Provisioning and Patch Automation Pack.

 - The sub-navigation tab **Provisioning** and the tabs under the page are all licensed under the Provisioning and Patch Automation Pack.
 - The sub-navigation tab **Patches & Updates**, the following links, and associated features are licensed under the Provisioning and Patch Automation Pack.
 - * **Patch via Deployment Procedures**
 - * **Linux Patching**
 - * **Patch Cache**
- From the My Oracle Support page linked from the Enterprise Manager Home page:
 - Under the section **Patches & Updates**, the following links are licensed features of the Provisioning and Patch Automation Pack:
 - * The link **Patch via Deployment Procedures** and all tabs and links under that page are licensed under the Provisioning and Patch Automation Pack.
 - * The link **Linux Patching** and all tabs and links under that page are licensed under the Provisioning and Patch Automation Pack.
 - * The link **Patch Cache** and all tabs and links under that page are licensed under the Provisioning and Patch Automation Pack.
 - Under the section **Patch Recommendations**, all features and links are licensed features of the Provisioning and Patch Automation Pack.
 - Under the section **Patch Plans**, all features associated with PLANs such as Create/Add to Plans, Validation and Merge Request process, along with integration with Deployment Procedures, are licensed features of the Provisioning and Patch Automation Pack.
- From the **Targets** tab on the **Enterprise Manager Home** page, select the **Databases** tab, then a database name.

- On the **Database Instance Home** page, the **Enterprise Security At a Glance** link in the **Security** section is a licensed feature of the Provisioning and Patch Automation Pack.
- Select the **Maintenance** sub-tab. The **Setup and Manage** link in the Data Guard section is a licensed feature of the Provisioning and Patch Automation Pack.
- On the Database Home page Software and Support tab, the following links are licensed as part of the Provisioning and Patch Automation Pack:
 - **Apply Patch**, **View Patch Cache**, and **Patch Prerequisites** under the Database Software Patching section
- On the Database **Home** page **Data Movement** tab, the **Clone Database** link in the Move Database Files section is licensed as part of the Provisioning and Patch Automation Pack.
- On the **Database Home** page **Server** tab, the following links under the Change Database section are licensed as part of the Provisioning and Patch Automation Pack:
 - **Convert to Cluster Database** link
 - **Add Instance** (only for RAC database)
 - **Delete Instance** (only for RAC database)
- On the **Database Home** page **Server** tab, the **Migrate to ASM** link under the Storage section is licensed as part of the Provisioning and Patch Automation Pack.
- On each of the following target tabs, the **Security At a Glance** link is licensed as part of the Provisioning and Patch Automation Pack:
 - **Host Targets** tab; navigate to the **Host Home** page, then select the **Enterprise Security At a Glance** link.
 - **Middleware** tab; navigate to the **Middleware Home** page, then select the **Enterprise Security At a Glance** link.
 - **Groups** tab; navigate to the **Group Home** page, then select the **Security At a Glance** link.
 - **Systems** tab; navigate to the **Systems Home** page, then select the **Security At a Glance** link.
 - **Web Applications** tab; navigate to the **Web Applications Home** page. From there, select the **System** link, then the **System (Topology)** link, and then select the **Security At a Glance** link.
 - **Services** tab; navigate to the **Service Home** page. From there, select the **System** link, then the **System (Topology)** link, and then select the **Security At a Glance** link.
- From the **Grid Control Home** page, click the **Setup** link in the upper right corner of the page. On the **Overview of Setup** page, click the **Agents** sub-tab. From the **Agents** page, click an **agent** to display the **Agent Home** page. The Dell Change Automation selection from the **Add** drop-down menu under the Monitored Targets section is a licensed feature of the Provisioning and Patch Automation Pack.
- From the **Grid Control Home** page, click the **Targets** tab, then **All Targets**. On the **All Targets** page, click the **Dell Change Automation** link. All links and features

available on or linked to from the **Dell Change Automation** page are licensed as part of this plug-in.

Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of the Provisioning and Patch Automation Management Pack:

- `get_procedures`
- `get_procedure_types`
- `get_instances`
- `get_instance_data_xml`

Deploying Management Plug-Ins for Oracle Enterprise Manager

Enterprise Manager offers Management Plug-ins to expand system coverage to non-Oracle components such as hosts, non-Oracle databases, non-Oracle middleware, network devices, and storage, thus providing customers with a single integrated tool for managing any application built on Oracle. The Management Plug-ins deliver availability and performance monitoring, historical trend analysis, and advanced event management capabilities, enabling faster problem diagnosis and resolution.

Note: Not all management plug-ins described in this guide are available on the Management Plug-Ins page of the Grid Control console. Only Management Plug-ins that have been imported into the Management Repository are listed on the page. Use the import function to add Management Plug-ins to the table.

Categories and Products

Enterprise Manager offers the following categories of management plug-ins that expand your system monitoring coverage to include additional target types, including hosts, non-Oracle databases, non-Oracle middleware, network devices, and storage:

- Oracle System Monitoring Plug-ins for Hosts
 - Oracle System Monitoring Plug-in for Hosts for Operating Systems and Hardware
 - Oracle System Monitoring Plug-in for Hosts for VMware ESX Server
 - Oracle System Monitoring Plug-in for Hosts for Dell Change Automation
 - Oracle System Monitoring Plug-in for Check Point Firewall
 - Oracle System Monitoring Plug-in for Juniper Netscreen Firewall
- System Monitoring Plug-ins for Storage
 - Oracle System Monitoring Plug-in for NetApp Filer
 - Oracle System Monitoring Plug-in for EMC Symmetrix DMX system
 - Oracle System Monitoring Plug-in for EMC CLARiiON system
 - Oracle System Monitoring Plug-in for EMC Celerra
- System Monitoring Plug-ins for Non-Oracle Middleware

Note: all of the following plug-ins require downloading of a jar file from Oracle Technology Network except for IBM WebSphere MQ and Microsoft Exchange Server.

- Oracle System Monitoring Plug-in for IBM WebSphere MQ
- Oracle System Monitoring Plug-in for Microsoft Active Directory
- Oracle System Monitoring Plug-in for Microsoft Exchange Server
- Oracle System Monitoring Plug-in for Microsoft .NET Framework
- Oracle System Monitoring Plug-in for Microsoft Commerce Server
- Oracle System Monitoring Plug-in for Microsoft Internet Security and Acceleration Server
- System Monitoring Plug-ins for Non-Oracle Databases
 - 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

General Features

Each plug-in provides one or more features for its respective target type, as described in [Table 6–9](#).

Table 6–9 Feature Highlights of Management Plug-ins

Feature	Benefit
Performance monitoring	Provide real-time and historical performance monitoring. Reduces the complex tasks of diagnosing and correcting performance problems for your targets.
Advanced alert Management	Provide notification methods, rules, and schedules, metric history and associated drill-downs, ability to set blackouts, associate corrective actions with an alert, user-defined metrics, metric snapshots, and monitoring templates.
Configuration management	Provide configuration data collection, search, comparison, and historical change tracking.
Task automation	Automate common administrative functions across one or several targets through the Job System.
Groups and systems	Collectively manage several distributed targets as easily as a single component.

Deploying Plug-Ins

The Management Plug-in page is the central access point for all of the functionality available to you to operate on your Management Plug-ins. Any Management Plug-in imported into the Management Repository is listed on the Management Plug-Ins page. Certain operations allow you to operate on multiple Management Plug-ins simultaneously (delete and export); some operations only allow you to operate on a single Management Plug-in at a time (deploy and undeploy); and import allows you to add Management Plug-ins to the table on this page. You also can search through the Management Plug-ins in the table using Name and Version as search criteria at the top of the page.

To deploy a plug-in in the Oracle Enterprise Manager 11g Grid Control Console, use the following procedure.

1. Log in to the Grid Control Console as a super administrator.
2. Click **Setup** in the upper right corner of the page.
3. Click **Management Plug-ins** on the left navigation panel.
4. In the table on this page, find the Management Plug-in you want to deploy. If your management plug-in is not listed in the table, click the **Import** button to import it into Enterprise Manager.
5. Click the **Deploy** icon corresponding to the plug-in you want to deploy.

Oracle System Monitoring Plug-ins For Hosts

The System Monitoring Plug-ins for Hosts provide performance and availability data collection, historical monitoring, event management/monitoring, notifications, and performance reporting for host systems.

See Also: [Deploying Management Plug-Ins for Oracle Enterprise Manager](#)

Enterprise Manager offers the following Plug-ins for Hosts:

- [Oracle System Monitoring Plug-in for Hosts for Operating Systems and Hardware](#)
- [Oracle System Monitoring Plug-in for Hosts for Dell Change Automation](#)

Oracle System Monitoring Plug-in for Hosts for Operating Systems and Hardware

The following sections explain the features, licensed links, licensed repository views, and command line interface (CLI) verbs for this plug-in.

Features

The following features are available for this plug-in:

- Real-time and historical performance monitoring and trending (hosts)
- Administration for users and groups
- Event management and monitoring
- Event/alert notifications: notification methods, rules, and schedules
- Event/alert history and metric history (hosts)
- User-defined metrics
- Metric snapshots
- Blackouts/planned outages
- Monitoring templates
- Corrective actions (including response actions)
- Performance and event reports
- Repository tables/views that store/expose the above data

To use these features, you must license the System Monitoring Plug-in for Hosts.

Licensed Links

The list that follows itemizes the links that require licensing of the System Monitoring Plug-in for Hosts for Operating Systems and Hardware Plug-in. Some features for the plug-in are accessed only when you are in Grid Control mode. You can navigate to these features in several ways. The list that follows assumes that you begin from the main Grid Control Home page.

- From the Oracle Enterprise Manager **Hosts page**:
 - When you click the link in the **Status** column, Enterprise Manager displays the **Availability (Status History)** page, which is part of this licensed plug-in.
 - When you select the value in the **CPU Util %** column, the metric history page for **CPU Utilization (%)** appears, which is part of this licensed plug-in.
 - When you select the value in the **Memory Util %** column, the metric history page for **Memory Utilization (%)** appears, which is part of licensed System Monitoring for Hosts plug-in.
 - When you select the value in the **Total IO/sec** column, the metric history page for **Total Disk I/O Per Second** appears, which is part of the licensed plug-in.
- From the Oracle Enterprise Manager **Host Home page**:
 - When you click the link in the **Status** field or the **Availability** field, the **Availability (Status History)** page appears, which is part of this licensed plug-in.
 - When you click the **Black Out** button, the **Create Blackout** wizard initiates, which is part of this licensed plug-in.
 - When you click the Metric Name in the **Alerts Table**, the metric history page that is displayed is part of this licensed plug-in.
- From the **Related Links** section of the Oracle Enterprise Manager Host Home page, the following links are licensed as part of this plug-in:
 - **Alert History**
 - **Blackouts**
 - **Storage Details**
 - **User-defined Metrics**
 - From the **All Metrics** link and the resultant All Metrics page, drilling down to **Metric History** pages is licensed.
 - From the **Metrics and Policy Settings** link, selecting **Metric Snapshots** from the **Metric Thresholds Links** section is a licensed feature.
- All links, charts, and information on the **Performance sub-tab** of the **Host Home page** are licensed under this plug-in.
- All links and information on the **Administration sub-tab** of the **Host Home page** are licensed under this plug-in.
- Select the **Preferences** link on the Enterprise Manager Grid Control Hosts page. From the **General Preferences** list, selecting either **Notification Rules** or **Notifications Public Rules**, and then **Create** to create a notification rule, or selecting the **Notification Schedules** feature is a licensed part of this plug-in.
- Creating a notification rule that applies to a host is a licensable feature of this plug-in.

- Select the **Setup** link on the Enterprise Manager Grid Control Hosts page. The following links on the **Overview of Setup** page are licensed as part of this plug-in:
 - **Monitoring Templates**
 - **Corrective Action Library**
 - **Notification Methods**
 - **Blackouts**
- Select the **Alerts** tab on the Enterprise Manager Grid Control Hosts page. Clicking on the **Message** link for any host-related alert is a licensed feature of the plug-in.
- Select the **Groups** sub-tab on the Enterprise Manager Grid Control Host page. On the **Groups** page, click an **Alert** in the Alert column. The **Message** link on the **Status Report** page is a licensed feature of the plug-in.
- Select the **Groups** sub-tab on the Enterprise Manager Grid Control Host page. Navigate to the **Group Home** page. The following items are licensed as part of this plug-in:
 - **Message links** for host-related alerts accessible from links in the **Alerts** section
 - **Alert History** button in the Alerts section
 - **Status History** button in the Status section
- Select the **Groups** sub-tab on the Enterprise Manager Grid Control Host page. Navigate to the **Group Home** page. All information on the **Groups Charts** page is licensed if the host is part of the membership of the group.
- Select the **Groups** sub-tab on the Enterprise Manager Grid Control Host page. Navigate to the **Group Home** page. On the **Groups Administration** page, all links in the **Blackouts** section are licensed if the host is a member of the group.
- Select the **Groups** sub-tab on the Enterprise Manager Grid Control Host page. Navigate to the **Group Home** page. On the **Groups Members** page, the following items are licensed as part of this plug-in:
 - Host-related links in the **Status** column
 - **Message links** for host-related alerts accessible from links in the **Alerts** column
 - Links in the performance metric columns for hosts; for example, CPU Usage and Memory Usage
- Select the **Systems** sub-tab on the Enterprise Manager Grid Control Host page. On the **Systems** page, click an **alert** in the Alert column. The **Message** link on the **Status Report** page is a licensed feature of the plug-in.
- Select the **Systems** sub-tab on the Enterprise Manager Grid Control Host page. Navigate to the **System Home** page. Whenever a host target is included in the system, the following items are licensed as part of this plug-in on the **Systems Home** page:
 - **Message links** for host-related alerts accessible from links in the Alerts section
 - **Alert History** button in the Alerts section
 - **Status History** button in the Status section
- Select the **Systems** sub-tab on the Enterprise Manager Grid Control Host page. Navigate to the **System Home** page. All information on the **Systems Charts** page is licensed if the host is part of the system.

- Select the **Systems** sub-tab on the Enterprise Manager Grid Control Host page. Navigate to the **System Home** page. On the **Systems Administration** page, all links in the **Blackouts** section are licensed if the host is part of the system.
- Select the **Systems** sub-tab on the Enterprise Manager Grid Control Host page. Navigate to the **System Home** page. On the **Systems Components** page, the following items are licensed:
 - **Host links** in the **Status** column
 - **Message links** for host-related alerts accessible from links in the **Alerts** column
 - **Links in the performance metric columns for host metrics**
- Select the **Systems** sub-tab on the Enterprise Manager Grid Control Host page. Navigate to the **System Home** page. On the **Systems Topology** page, the following items are licensed:
 - Status link in the **Selection Details** column for host components
 - **Message links** accessible from the alerts links in the Selection Details and Summary sections for host alerts
- Select the **Systems** sub-tab on the Enterprise Manager Grid Control Host page. Navigate to the **System Home** page. Click the **Launch Dashboard** button. On the Dashboard, all **Message links** for host-related alerts in the **Message** column are licensed as are status links in the status column.
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page. On the **Services** page, the following items are licensed as part of this plug-in:
 - The **Status** link is licensed if service availability is system-based and if at least one host component is a key component
 - **Message links** accessible from links in the **Performance Alerts** section if host metrics are used as performance metrics
 - **Message links** accessible from links in the **Usage Alerts** column if host metrics are used as usage metrics
 - **Message links** for host-related alerts accessible from links in the **Alerts** column of the **Key Components** sub-column
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page. On the **Services** page, select a **Service** to add from the **Add** drop-down menu and click **Go**. On the **Services Creation wizard**, the use of host metrics as performance and usage metrics is a licensed feature of the plug-in.
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page. Click a generic service link on the **Services** page to display the Service Home page. The following items are licensed as part of this plug-in on the **Service Home** page:
 - The **Blackout** button in the **General** section is licensed if the availability of the service is system-based and at least one host is a key component
 - The **Availability** link in the **General** section is licensed if the availability of the service is system-based and at least one host is a key component
 - **Actual Service Level** link in the **General** section is licensed if the availability of the service is system-based and at least one host is a key component
 - **Message links** in the **Message** column for host-related alerts accessible from Alert links in the **Key Component Summary** section

- **Message links** in the **Message** column of the **Possible Causes of Service Failure** section if a host component is one of the possible causes of failure
- **Message links** in the **Message** columns accessible from the **Root Cause Analysis Details** link in the **Possible Causes of Service Failure** section if a host component is one of the possible causes of failure
- **Message links** for host-related alerts in the **Message** column of the **Alerts** section
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page. Click a generic service link on the **Services** page to display the **Service Home** page. Click the **System** link. The following items are licensed as part of this plug-in on the **Service System** page:
 - **Status** link for host key components
 - **Message links** for host-related alerts accessible from links in the **Alerts** column
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page. Click a generic service link on the **Services** page to display the **Service Home** page. Click the **Topology** link. The following items are licensed as part of the plug-in on the **Service Topology** page:
 - The **Status** link in the **Selection Details** section is licensed if service availability is system-based and if at least one host is a key component
 - **Message links** for host-related alerts accessible from the **Alerts** link in the **Selection Details** section
 - **Possible Root Cause** link in the **Selection Details** section if the root cause is a host
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page. Click a generic service link on the **Services** page to display the **Service Home** page. Click the **Monitoring Configuration** link. The following items are licensed as part of the plug-in on the **Service Monitoring Configuration** page:
 - **Host** links for host targets in the **Component Test** column accessible from the **Root Cause Analysis Configuration** link
 - **Adding Performance Metrics** based on host metrics accessible from the **Performance Metrics** link
 - **Adding Usage Metrics** based on host metrics accessible from the **Usage Metrics** link
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page. Click a generic service link on the **Services** page to display the **Service Home** page. The following items are licensed as part of the plug-in in the **Related Links** section:
 - **Blackouts** and all subsequent pages are licensed if the availability of the service is system-based and at least one host is a key component
 - **Alert History** link and subsequent pages if any host metrics are used as performance or usage metrics for the service
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page. Click an aggregate service link on the **Services** page to display the **Service Home** page. The following items are licensed as part of this plug-in on the **Service Home** page:

- The **Blackout button** in the **General section** is licensed if the availability of one of the sub-services is system-based and at least one host is a key component
- The **Availability link** in the **General section** is licensed if the availability of one of the sub-services is system-based and at least one host is a key component
- **Actual Service Level link** in the **General section** is licensed if the availability of one of the sub-services is system-based and at least one host is a key component
- **Message links** in the **Message** column for host-related alerts accessible from **Alert links** in the **Key Component Summary section**
- **Message links** in the **Message** column of the **Possible Causes of Service Failure section**, if a host component is one of the possible causes of failure
- **Message links** in the **Message** columns accessible from the **Root Cause Analysis Details link** in the **Possible Causes of Service Failure section**, if a host component is one of the possible causes of failure
- **Message links** for host-related alerts in the **Message** column of the **Alerts section**
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page. Click an aggregate service link on the **Services page** to display the **Service Home page**. Click the **Topology link**. The following items are licensed as part of the plug-in on the **Service Topology page**:
 - The **Status link** in the **Selection Details section** is licensed if the availability of one of the sub-services is system-based and if at least one host is a key component
 - **Message links** for host-related alerts accessible from the **Alerts link** in the **Selection Details section**
 - **Possible Root Cause link** in the **Selection Details section** if the root cause is a host
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page. Click an aggregate service link on the **Services page** to display the **Service Home page**. The following items are licensed as part of the plug-in in the **Related Links section**:
 - **Blackouts** and all subsequent pages are licensed if the availability of one of the sub-services is system-based and at least one host is a key component
 - **Host links** for host targets in the **Component Test** column accessible from the **Root Cause Analysis Configuration link**
- Select the **Web Applications** sub-tab on the Enterprise Manager Grid Control Host page. On the **Web Applications page**, the following items are licensed as part of this plug-in:
 - If Web Application availability is system-based and if at least one host component is a key component, then the **Status link** is licensed
 - **Message links** for host-related alerts accessible from links in the **Alerts column**
- Select the **Web Applications** sub-tab on the Enterprise Manager Grid Control Host page. Click a web application. The following items are licensed as part of this plug-in on the **Web Application Home page**:

- The **Blackout button** in the **General section** is licensed if the availability of the service is system-based and at least one host is a key component
- The **Availability link** in the **General section** is licensed if the availability of the service is system-based and at least one host is a key component
- **Actual Service Level link** in the **General section** is licensed if the availability of the service is system-based and at least one host is a key component
- **Message links** in the **Message column** for host-related alerts accessible from **Alert links** in the **Key Component Summary section**
- **Message links** in the **Message column** of the **Possible Causes of Service Failure section**, if a host component is one of the possible causes of failure
- **Message links** in the **Message columns** accessible from the **Root Cause Analysis Details link** in the **Possible Causes of Service Failure section**, if a host component is one of the possible causes of failure
- **Message links** for host-related alerts in the **Message column** of the **Alerts section** for host alerts
- Select the **Web Applications** sub-tab on the Enterprise Manager Grid Control Host page. Click a web application. Click the **System link**. The following items are licensed as part of the plug-in on the **Web Application System page**:
 - **Status link** is licensed if service availability is system-based and if at least one host is a key component
 - **Message links** for host-related alerts accessible from links in the **Alerts column**
- Select the **Web Applications** sub-tab on the Enterprise Manager Grid Control Host page. Click a web application. Click the **Topology link**. The following items are licensed as part of the plug-in on the **Web Application Topology page**:
 - The **Status link** in the **Selection Details section** is licensed if service availability is system-based and if at least one host is a key component
 - **Message links** for host-related alerts accessible from the **Alerts link** in the **Selection Details section**
 - **Possible Root Cause link** in the **Selection Details section** if the root cause is a host
- Select the **Web Applications** sub-tab on the Enterprise Manager Grid Control Host page. Click a web application. Click the **Monitoring Configuration link**. The following items are licensed as part of the plug-in on the **Web Application Monitoring Configuration page**:
 - **Host links** in the **Component Test column** accessible from the **Root Cause Analysis Configuration link**
 - Adding Performance Metrics based on host metrics accessible from the **Performance Metrics link**
 - Adding Usage Metrics based on host metrics accessible from the **Usage Metrics link**
- Select the **Web Applications** sub-tab on the Enterprise Manager Grid Control Host page. Click a web application. The following item is licensed as part of the plug-in in the **Related Links section**:
 - **Blackouts** and all subsequent pages are licensed if the availability of the web application is system-based and at least one host is a key component

- From the **Grid Control Home page**, select **Targets**, then **Databases**, and then select a database link to drill down to the **Database Home page**. On the Database Home page, any **Message link** for host-related alerts in the **Related Alerts section** is a licensed part of this plug-in.
- From the **Grid Control Home page**, select **Targets**, then **Middleware**. Click an Application Server link. On the **Oracle Application Server home page**, all **Message links** in the Host Alerts section are licensed.
- From the home page for any target type, all **Message links** in the **Host Alerts section** are licensed.

Licensed Reports

The following reports are part of the System Monitoring Plug-in for Hosts for Operating Systems and Hardware. To display the Report Definitions page, click the **Reports** tab on the Grid Control Home page.

- 20 Most Common Alerts and Policy Violations
- 20 Most Common Alerts and Policy Violations (Target): for a host target
- Alerts and Policy Violations History
- Alerts and Policy Violations History (Group): if a host is one of the members of the group
- Alerts and Policy Violations History (Target): for a host target
- Availability History (Group): if a host is one of the members of the group
- Availability History (Redundancy Group): if a host is one of the members of the redundancy group
- Availability History (Target): for a host target

Licensed Repository Views

The following repository views are part of the System Monitoring Plug-in for Hosts for Operating Systems and Hardware:

- Monitoring Views
 - MGMT\$BLACKOUT_HISTORY
 - MGMT\$BLACKOUTS
 - MGMT\$ALERT_ANNOTATIONS
 - MGMT\$ALERT_NOTIF_LOG
 - MGMT\$AVAILABILITY_HISTORY
 - MGMT\$ALERT_HISTORY
 - MGMT\$METRIC_DETAILS
 - MGMT\$METRIC_HOURLY
 - MGMT\$METRIC_DAILY
- Template Views
 - MGMT\$TEMPLATES
 - MGMT\$TEMPLATE_POLICY_SETTINGS
 - MGMT\$TEMPLATE_METRIC_COLLECTION

- MGMT\$TEMPLATE_METRIC_SETTINGS

Licensed Command Line Interface (CLI) Verbs

The following command line interface (CLI) verbs are licensed as part of the System Monitoring Plug-in for Hosts for Operating Systems and Hardware:

- delete_blackout
- get_blackout_details
- get_blackout_reasons
- get_blackout_targets
- get_blackouts
- stop_blackout

Oracle System Monitoring Plug-in for Hosts for Dell Change Automation

This plug-in automates scheduled updates for Dell BIOS and firmware from the Enterprise Manager Grid Control console to manage the entire stack, including applications, database, operating systems and Dell hardware. This plug-in is licensed within the Provisioning and Patch Automation Pack for Database Management, for Oracle Middleware, and the standalone version.

The following sections explain the features, licensed links, and command line interface (CLI) verbs for this plug-in.

Features

The System Monitoring Plug-in for Dell Change Automation includes the features shown in [Table 6–10](#).

Table 6–10 Feature Highlights of System Monitoring Plug-in for Dell Change Automation

Feature	Benefit
Centralized management	Manage Oracle software stack and Dell servers from one centralized console.
Inventory collection automation	Get an automated inventory collection for Dell servers and configuration comparison across servers.
Dell server compliance information	Benefit from compliance information for Dell servers with respect to the latest upgrade and rollback packages — Dell update packages (DUPs) — available on http://www.dell.com/ .
BIOS patching automation	Automate patching of BIOS and firmware to desired device version levels.

Licensed Links

The list that follows itemizes the links that require licensing of the System Monitoring Plug-in for Hosts for Dell Change Automation.

- From the **Grid Control Home** page, click the **Targets** tab, then **All Targets**. On the **All Targets** page, click the **Dell Change Automation** link. All links and features available on or linked to from the **Dell Change Automation** page are licensed as part of this plug-in.
- From the **Grid Control Home** page, click the **Setup** link in the upper right corner of the page. On the **Overview of Setup** page, click the **Agents sub-tab**. From the **Agents** page, click an **agent** to display the **Agent Home** page. The **Dell Change**

Automation selection from the **Add** drop-down menu under the Monitored Targets section is a licensed feature of this plug-in.

Licensed Reports

Click the **Reports** tab on the Grid Control Home page, expand the **Deployment** category, then expand the **Compliance** category.

The following reports are part of the System Monitoring Plug-in for Hosts for Dell Change Automation:

- Dell Bundles — Rollback
- Dell Bundles — Rollback/Upgrade
- Dell Bundles — Upgrade
- Dell Packages — Rollback
- Dell Packages — Upgrade
- Dell Inventory Report

Licensed Repository Views

The following repository views are part of the System Monitoring Plug-in for Hosts for Dell Change Automation:

- Monitoring Views
 - MGMT\$BLACKOUT_HISTORY
 - MGMT\$BLACKOUTS
 - MGMT\$ALERT_ANNOTATIONS
 - MGMT\$ALERT_NOTIF_LOG
 - MGMT\$AVAILABILITY_HISTORY
 - MGMT\$ALERT_HISTORY
 - MGMT\$METRIC_DETAILS
 - MGMT\$METRIC_HOURLY
 - MGMT\$METRIC_DAILY
- Template Views
 - MGMT\$TEMPLATES
 - MGMT\$TEMPLATE_POLICY_SETTINGS
 - MGMT\$TEMPLATE_METRIC_COLLECTION
 - MGMT\$TEMPLATE_METRIC_SETTINGS

Licensed Command Line Interface (CLI) Verbs

The following command line interface (CLI) verb (as it relates to adding hosts for Dell Change Automation) is licensed as part of the System Monitoring Plug-in for Hosts for Dell Change Automation:

- add_target

The internal name to be used with the add_target verb is:

- dell_change_automation

System Monitoring Plug-Ins for Storage

The System Monitoring Plug-ins for Storage provide performance and availability data collection, real-time and historical monitoring, event management/monitoring, notifications, and performance reporting for storage devices.

The following storage plug-ins are available:

- Oracle System Monitoring Plug-in for NetApp Filer
- Oracle System Monitoring Plug-in for EMC Symmetrix DMX system
- Oracle System Monitoring Plug-in for EMC CLARiiON system
- Oracle System Monitoring Plug-in for EMC Celerra

See Also: [Deploying Management Plug-Ins for Oracle Enterprise Manager](#)

Features

The following features are available for these plug-ins:

- Performance monitoring and trending (storage)
- Event management/monitoring (storage)
- Event/alert notifications: notification methods, rules and schedules
- Event/alert history/metric history /metric history (storage)
- Metric snapshots
- Blackouts/planned outages
- Monitoring templates
- Corrective actions (including response actions)
- Performance and event reports
- Repository tables/views that store/expose the above data

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

Licensed Links

The list that follows itemizes the links that require licensing of the System Monitoring Plug-Ins for Storage. All of the plug-ins (except host) are available in Grid Control only. You can navigate to these features in several ways. The list that follows assumes that you begin from the main Grid Control Home page.

Note: This section does not include feature links that may contain information derived from adding NetApp Filer instances, but are considered part of the System Monitoring Plug-in for Storage.

- From the **Host Home page**, select **All Targets**. Click an agent to display the **Agent Home page**. From the **Add** menu drop-down, the **Network Appliance Filer** selection is a licensed option of the System Monitoring Plug-in for Storage. This also applies to EMC Celerra Server.

Licensed Command Line Interface (CLI) Verbs

The `add_target` verb with the following listed types is licensed as part of the System Monitoring Plug-in for Storage:

- `add_target` (with type="netapp_filer")
- `add_target` (with type="emc_symmetrix_storage")
- `add_target` (with type="emc_clariion_storage")
- `add_target` (with type="emc_celerra_storage")

System Monitoring Plug-Ins for Network Devices

The System Monitoring Plug-ins for Network Devices provide performance and availability data collection, real-time and historical monitoring, event management/monitoring, notifications, and performance reporting for network devices. The following network device plug-ins are available:

- Oracle System Monitoring Plug-in for Check Point Firewall
- Oracle System Monitoring Plug-in for Juniper Netscreen Firewall

See Also: [Deploying Management Plug-Ins for Oracle Enterprise Manager](#)

Features

The following features are available for these plug-ins:

- Real-time and historical performance monitoring and trending (network devices)
- Event management/monitoring (network devices)
- Event/alert notifications: notification methods, rules and schedules
- Metric snapshots
- Blackouts/planned outages
- Monitoring templates
- Corrective actions (including response actions)
- Performance and event reports
- Browsing the configuration history, taking configuration snapshots, and comparing configurations
- Repository tables/views that store/expose the above data

To use these, you must license the System Monitoring Plug-in for Network Devices.

Licensed Links

The list that follows itemizes the links that require licensing of the System Monitoring for Network Devices plug-ins. The features for the plug-ins are available only in Grid Control mode. You can navigate to these features in several ways. The list that follows assumes that you begin from the main Grid Control Home page.

- From the **Host Home page**, select **All Targets**. Click an Agent to display the **Agent Home page**. From the **Add** menu drop-down, the **Load Balancer Switch** selection is a licensed option of the System Monitoring Plug-in for Network Devices. Add

other plug-ins as needed. Respective target type names are Check Point Firewall and Juniper Netscreen Firewall.

Licensed Command Line Interface (CLI) Verbs

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

- `add_target` (with `type="slb"`)

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

- `juniper_netscreen_firewall`
- `checkpoint_firewall`

System Monitoring Plug-Ins for Non-Oracle Middleware

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

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

- Oracle System Monitoring Plug-in for IBM WebSphere MQ
- Oracle System Monitoring Plug-in for Microsoft Active Directory
- Oracle System Monitoring Plug-in for Microsoft Exchange Server
- Oracle System Monitoring Plug-in for Microsoft .NET Framework
- Oracle System Monitoring Plug-in for Microsoft Commerce Server
- Oracle System Monitoring Plug-in for Microsoft Internet Security and Acceleration Server

See Also: [Deploying Management Plug-Ins for Oracle Enterprise Manager](#)

Features

The following features are available for these plug-ins:

- Real-time and historical performance monitoring and trending
- Event management/monitoring
- Event/alert notifications: notification methods, rules and schedules
- Event/alert history/metric history
- User-defined metrics
- Metric snapshots
- Blackouts/planned outages
- Monitoring templates
- Corrective actions (including response actions)
- Performance and event reports
- Repository tables and views that store or expose the above data

- Distributed management through groups and systems
- Configuration management features, including third-party middleware software configuration data collection, search, comparison, and change tracking (applies only to System Monitoring Plug-ins for Microsoft Active Directory and Microsoft Exchange Server).

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

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 Grid Control Home page.

- From the **Grid Control Home page**, click the **Setup** link in the upper right corner of the page. On the **Overview of Setup** page, click the **Agents sub-tab**. From the **Agents page**, click an **agent** to display the **Agent Home page**. The following selections from the **Add** drop-down menu under the Monitored Targets section are licensed features of the System Monitoring Plug-in for Non-Oracle Middleware:
 - **IBM WebSphere MQ Queue Manager**
 - **Microsoft Active Directory**
 - **Microsoft .NET Framework**
 - **Microsoft Commerce Server**
 - **Microsoft Internet Security and Acceleration Server (Microsoft ISA Server)**
 - **Microsoft Exchange Server**
- From the **Enterprise Manager Home** page:
 - Select the **Targets** tab, then the **Middleware** sub-tab. From the Middleware page, click an **IBM WebSphere MQ Queue Manager** link. The following links in the IBM WebSphere MQ Queue Manager home page are licensed features of the System Monitoring Plug-in for IBM WebSphere MQ:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section
 - * **All links** in the Queue Manager Components section
 - From the **IBM WebSphere MQ Queue Manager** home page, click the **Performance** tab. All of the links in the **Performance Links** section of the IBM WebSphere MQ Queue Manager Performance page are licensed features of the System Monitoring Plug-in for IBM WebSphere MQ.
- From the **Enterprise Manager Home** page:
 - Select the **Targets** tab, then the **Middleware** sub-tab. From the Middleware page, click the **Microsoft Active Directory** link. The following links in Microsoft Active Directory home page are licensed features of the System Monitoring Plug-in for Microsoft Active Directory:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section

- * **All Metrics** in the Related Links section
- * **Blackouts** in the Related Links section
- * **All links** in the Configuration section
- From the **Microsoft Active Directory** home page, click the **Reports** tab. All of the options in the **View Reports** section of the Microsoft Active Directory Reports page are licensed features of System Monitoring Plug-in for Microsoft Active Directory.
- From the **Enterprise Manager Home** page:
 - Select the **Targets** tab, then the **Middleware** sub-tab. From the Middleware page, click **Microsoft Exchange Server** link. The following links in the Microsoft Active Directory home page are licensed features of the System Monitoring Plug-in for Microsoft Exchange Server:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section
 - * **All links** in the Configuration section
 - From **Microsoft Exchange Server** home page, click the **Performance** tab. All of the options in the **View** section of the Microsoft Exchange Server Performance page are licensed features of System Monitoring Plug-in for Microsoft Exchange Server.
- From the **Enterprise Manager Home** page:
 - Select the **Targets** tab, then the **Middleware** sub-tab. From the Middleware page, click the **Microsoft .NET Framework** link. The following links in the **Microsoft .NET Framework** home page are licensed features of the System Monitoring Plug-in for Microsoft .NET Framework:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section
 - From the **Microsoft .NET Framework** home page, click the **Reports** tab. All of the options in the **View Reports** section of the Microsoft .NET Framework Reports page are licensed features of System Monitoring Plug-in for Microsoft Internet Information Services.
- From the **Enterprise Manager Home** page:
 - Select the **Targets** tab, then the **Middleware** sub-tab. From the Middleware page, click the **Microsoft Commerce Server** link. The following links in the Microsoft Commerce Server home page are licensed features of the System Monitoring Plug-in for Microsoft Commerce Server:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section

- From **Microsoft Commerce Server** home page, click the **Reports** tab. All of the options in the **View Reports** section of the Microsoft Commerce Server Reports page are licensed features of System Monitoring Plug-in for Microsoft Commerce Server.
- From the **Enterprise Manager Home** page:
 - Select the **Targets** tab, then the **Middleware** sub-tab. From the Middleware page, click the **Microsoft ISA Server** link. The following links in the Microsoft ISA Server home page are licensed features of the System Monitoring Plug-in for Microsoft ISA Server:
 - * **Availability** in the General section
 - * **Alert History** and notifications functionality in the Related Links section
 - * **All Metrics** in the Related Links section
 - * **Blackouts** in the Related Links section
 - From the **Microsoft ISA Server** home page, click the **Reports** tab. All of the options in the **View Reports** section of the Microsoft ISA Server Reports page are licensed features of System Monitoring Plug-in for Microsoft ISA Server.

Licensed Command Line Interface (CLI) Verbs

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

- `add_target`

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

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

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

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

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

System Monitoring Plug-Ins for Non-Oracle Databases

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

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

- Oracle System Monitoring Plug-in for Sybase Adaptive Server Enterprise

See Also: [Deploying Management Plug-Ins for Oracle Enterprise Manager](#)

Features

The following features are available for these plug-ins:

- Performance monitoring and trending
- Event management/monitoring
- Event/alert notifications: notification methods, rules, and schedules
- Metric snapshots
- Blackouts/planned outages
- Monitoring templates
- Corrective actions (including response actions)
- Performance and event reports
- Browsing the configuration history, taking configuration snapshots, and comparing configurations
- Repository tables/views that store/expose the above data

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

Licensed Links

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

- From the **Grid Control Home page**, click the **Setup** link in the upper right corner of the page. On the **Overview of Setup** page, click the **Agents sub-tab**. From the **Agents page**, click an **agent** to display the **Agent Home page**. The following selections from the **Add** drop-down menu under the Monitored Targets section are licensed features of the System Monitoring Plug-in for Non-Oracle Databases:
 - **Microsoft SQL Server**
 - **IBM DB2 Database**
 - **Sybase Adaptive Server Enterprise**

Licensed Command Line Interface (CLI) Verbs

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

- `add_target`

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

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

Management Connectors

Management Connectors enable bi-directional integration between Enterprise Manager and other management tools and help desk systems. By seamlessly integrating different tools within the IT environment, organizations can streamline key support processes, consolidate monitoring information in their tool of choice, reduce the total cost of ownership, and perform cross-platform diagnostics and root cause analysis.

The following sections in this chapter describe the licensed features and access points of the Management Connectors packs available for Oracle Enterprise Manager:

- [Management Connectors for Remedy](#)
- [Management Connector for HP ServiceCenter](#)
- [Management Connector for HP Service Manager](#)
- [Management Connector for CA Service Desk](#)
- [Management Connector for HP OpenView Operations](#)
- [Management Connector for IBM Tivoli Enterprise Console](#)
- [Management Connector for Microsoft Operations Manager 2005](#)
- [Management Connector for Microsoft System Center Operations Manager](#)

Management Connectors for Remedy

The Enterprise Manager Management Connectors for the Remedy 6.x Help Desk and BMC Remedy Service Desk v7 provide seamless integration between Enterprise Manager and Remedy to support a seamless workflow for incident management and resolution.

The Management Connectors for Remedy enable administrators to open service requests automatically or manually in response to Enterprise Manager alerts. After the service request has been created, Enterprise Manager automatically keeps track of the request ID and updates the Remedy system every time the alert state changes. Additionally, in-context launch of Enterprise Manager from Remedy and vice versa is supported, thereby improving support workflow and streamlining problem resolution.

Features

The Management Connector for Remedy includes the features shown in [Table 6–11](#).

Table 6–11 *Feature Highlights of Management Connector for Remedy*

Feature	Benefit
Automatic and manual ticket creation	Automatically or manually open Remedy service requests in response to Enterprise Manager alerts.
Ticket templates	Enable administrators to specify which Remedy fields should be populated, and what data these fields should be populated with. The connector includes several of out-of-box templates based on the default Remedy configuration.
In-context launch	In Enterprise Manager, the service request information is displayed in context of the alert, allowing administrators to launch the Remedy Web Console to view or update the request details. In Remedy, a link to the alert details is provided, enabling the support operator to navigate to the Metric Details page in the Enterprise Manager Console.

Licensed Links

The following links require licensing of the connector:

- From the Grid Control Home page, click the **Setup** link in the upper right corner of the page. Click the **Management Connectors** link in the side panel. Configuring the connector by clicking on the **Configure** icon is a licensed feature of the Management Connector for Remedy Help Desk.
- From the Grid Control Home page, click the **Preferences** link in the upper right corner of the page. Click the **Rules** link in the side panel, select a rule in the list, then click **Edit**. Click the **Actions** property page. The **Ticketing** section is a licensed feature of the Management Connector for Remedy Help Desk.
- Click on any alert link, then click one of the metric alerts in the page that follows. The **Create/View Ticket** link in the Actions section is a licensed feature of the Management Connector for Remedy Help Desk. Also, if a ticket is created, the ticket number link in the Message column of the Updates table is a licensed feature.

Licensed Repository Views

The following repository view is part of the Management Connector for Remedy Help Desk:

- MGMT\$CONNECTOR

Management Connector for HP ServiceCenter

The Enterprise Manager Management Connector for HP ServiceCenter provides seamless integration between Enterprise Manager and HP ServiceCenter to support a seamless workflow for incident management and resolution.

The Management Connector for HP ServiceCenter enables administrators to open service requests automatically or manually in response to Enterprise Manager alerts. After the service request has been created, Enterprise Manager automatically keeps track of the request ID and updates the HP ServiceCenter system every time the alert state changes. Additionally, in-context launch of Enterprise Manager from HP ServiceCenter and vice versa is supported, thereby improving support workflow and streamlining problem resolution.

Features

The Management Connector for HP ServiceCenter includes the features shown in [Table 6–12](#).

Table 6–12 Feature Highlights of Management Connector for HP ServiceCenter

Feature	Benefit
Automatic and manual ticket creation	Automatically or manually open HP ServiceCenter service requests in response to Enterprise Manager alerts.
Ticket templates	Enable administrators to specify which HP ServiceCenter fields should be populated, and what data these fields should be populated with. The connector includes several of out-of-box templates based on the default HP ServiceCenter configuration.

Table 6–12 (Continued) Feature Highlights of Management Connector for HP

Feature	Benefit
In-context launch	In Enterprise Manager, the service request information is displayed in context of the alert, allowing administrators to launch the HP ServiceCenter Console to view or update the request details. In HP ServiceCenter, a link to the alert details is provided, enabling the support operator to navigate to the Metric Details page in the Enterprise Manager Console.

Licensed Links

The following links require licensing of the connector:

- From the Grid Control Home page, click the **Setup** link in the upper right corner of the page. Click the **Management Connectors** link in the side panel. Configuring the connector by clicking on the **Configure** icon is a licensed feature of the Management Connector for HP ServiceCenter.
- From the Grid Control Home page, click the **Preferences** link in the upper right corner of the page. Click the **Rules** link in the side panel, select a rule in the list, then click **Edit**. Click the **Actions** property page. The **Ticketing** section is a licensed feature of the Management Connector for HP ServiceCenter.
- Click on any alert link, then click one of the metric alerts in the page that follows. The **Create/View Ticket** link in the Actions section is a licensed feature of the Management Connector for HP ServiceCenter. Also, if a ticket is created, the ticket number link in the Message column of the Updates table is a licensed feature.

Licensed Repository Views

The following repository view is part of the Management Connector for HP ServiceCenter:

- MGMT\$CONNECTOR

Management Connector for HP Service Manager

The Enterprise Manager Management Connector for HP Service Manager provides seamless integration between Enterprise Manager and HP Service Manager to support a seamless workflow for incident management and resolution.

The Management Connector for HP Service Manager enables administrators to open service requests automatically or manually in response to Enterprise Manager alerts. After the service request has been created, Enterprise Manager automatically keeps track of the request ID and updates the HP Service Manager system every time the alert state changes. Additionally, in-context launch of Enterprise Manager from HP Service Manager and vice versa is supported, thereby improving support workflow and streamlining problem resolution.

Features

The Management Connector for HP Service Manager includes the features shown in [Table 6–13](#).

Table 6–13 Feature Highlights of Management Connector for HP Service Manager

Feature	Benefit
Automatic and manual ticket creation	Automatically or manually open HP Service Manager service requests in response to Enterprise Manager alerts.

Table 6–13 (Continued) Feature Highlights of Management Connector for HP Service

Feature	Benefit
Ticket templates	Enable administrators to specify which HP Service Manager fields should be populated, and what data these fields should be populated with. The connector includes several of out-of-box templates based on the default HP Service Manager configuration.
In-context launch	In Enterprise Manager, the service request information is displayed in context of the alert, allowing administrators to launch the HP Service Manager Console to view or update the request details. In HP Service Manager, a link to the alert details is provided, enabling the support operator to navigate to the Metric Details page in the Enterprise Manager Console.

Licensed Links

The following links require licensing of the connector:

- From the Grid Control Home page, click the **Setup** link in the upper right corner of the page. Click the **Management Connectors** link in the side panel. Configuring the connector by clicking on the **Configure** icon is a licensed feature of the Management Connector for HP Service Manager.
- From the Grid Control Home page, click the **Preferences** link in the upper right corner of the page. Click the **Rules** link in the side panel, select a rule in the list, then click **Edit**. Click the **Actions** property page. The **Ticketing** section is a licensed feature of the Management Connector for HP Service Manager.
- Click on any alert link, then click one of the metric alerts in the page that follows. The **Create/View Ticket** link in the Actions section is a licensed feature of the Management Connector for HP Service Manager. Also, if a ticket is created, the ticket number link in the Message column of the Updates table is a licensed feature.

Licensed Repository Views

The following repository view is part of the Management Connector for HP Service Manager:

- MGMT\$CONNECTOR

Management Connector for CA Service Desk

Oracle Management Connector for CA Service Desk integrates Oracle Enterprise Manager Grid Control's proactive alert detection and resolution features with CA Service Desk's capabilities to provide a seamless workflow for incident management and resolution. Features include:

- Automatic and manual (incident) ticket generation based on Enterprise Manager alerts
- Fully customizable ticket generation through ticket templates
- Automatic alert-to-ticket synchronization
- In-context launch of CA Service Desk console from Enterprise Manager and vice-versa
- Out-of-box ticket templates

Features

The Management Connector for CA Service Desk includes the features shown in [Table 6–14](#).

Table 6–14 Feature Highlights of Management Connector for CA Service Desk

Feature	Benefit
Automatic and manual ticket creation	Automatically or manually open CA Service Desk service requests in response to Enterprise Manager alerts.
Ticket templates	Enable administrators to specify which CA Service Desk fields should be populated, and what data these fields should be populated with. The connector includes several of out-of-box templates based on the default CA Service Desk configuration.
In-context launch	In Enterprise Manager, the service request information is displayed in context of the alert, allowing administrators to launch the CA Service Desk Console to view or update the request details. In CA Service Desk, a link to the alert details is provided, enabling the support operator to navigate to the Metric Details page in the Enterprise Manager Console.

Licensed Links

The following links require licensing of the connector.

- From the Grid Control Home page, click the **Setup** link in the upper right corner of the page. Click the **Management Connectors** link in the side panel. Configuring the connector by clicking on the **Configure** icon is a licensed feature of the Management Connector for CA Service Desk.
- From the Grid Control Home page, click the **Preferences** link in the upper right corner of the page. Click the **Rules** link in the side panel, select a rule in the list, then click **Edit**. Click the **Actions** property page. The **Ticketing** section is a licensed feature of the Management Connector for CA Service Desk.
- Click on any alert link, then click one of the metric alerts in the page that follows. The **Create/View Ticket** link in the Actions section is a licensed feature of the Management Connector for CA Service Desk. Also, if a ticket is created, the ticket number link in the Message column of the Updates table is a licensed feature.

Licensed Repository Views

The following repository view is part of the Management Connector for CA Service Desk:

- MGMT\$CONNECTOR

Management Connector for HP OpenView Operations

The Enterprise Manager Management Connector for HP OpenView Operations provides seamless integration between Enterprise Manager and HP OpenView Operations to support a seamless workflow for incident management and resolution.

Oracle Management Connector for HP OpenView Operations enables customers who manage their data centers using HP OpenView Operations to integrate with Enterprise Manager by enabling end-to-end event/alert sharing. The connector allows administrators to automatically forward HP OVO event messages to Enterprise Manager as well as forward Enterprise Manager alerts to HP OVO.

Additionally, the connector keeps track of all of the events HP OVO forwards and automatically updates alert information in the Enterprise Manager console whenever

changes occur in HP OVO. A similar synchronization of alerts sent from Enterprise Manager occurs in HP OVO. This ensures that the two systems are always synchronized and provides administrators with up-to-date information about their entire data center.

Licensed Links

The following links require licensing of the connector.

- From the Grid Control Home page, click the **Setup** link in the upper right corner of the page. Click the **Management Connectors** link in the side panel. Configuring the connector by clicking on the **Configure** icon is a licensed feature of the Management Connector for HP OpenView Operations.
- From the Grid Control Home page, click the **Preferences** link in the upper right corner of the page. Click the **Rules** link in the side panel, select a rule in the list, then click **Edit**. Click the **Methods** property page. In the Advanced Notification Methods table, any name associated with HP **OpenView Operations** is a licensed feature of the Management Connector for HP OpenView Operations.
- Click on any alert link, then click one of the metric alerts in the page that follows. The **Create/View Ticket** link in the Related Links section is a licensed feature of the Management Connector for HP OpenView Operations.

Licensed Repository Views

The following repository view is part of the Management Connector for HP OpenView Operations:

- MGMT\$CONNECTOR

Management Connector for IBM Tivoli Enterprise Console

The Enterprise Manager Management Connector for IBM Tivoli Enterprise Console provides seamless integration between Enterprise Manager and IBM Tivoli Enterprise Console to support a seamless workflow for incident management and resolution.

The Oracle Management Connector for IBM Tivoli Enterprise Console enables customers that manage their data centers using IBM Tivoli Enterprise Console to integrate with Oracle Enterprise Manager by enabling end-to-end event/alert sharing. The connector allows administrators to automatically forward Tivoli TEC event messages to Enterprise Manager as well as forward Enterprise Manager alerts to Tivoli TEC.

Additionally, the connector manages all of the events forwarded from Tivoli TEC, and automatically updates alert information in the Enterprise Manager console whenever changes occur in Tivoli TEC. A similar synchronization of alerts sent from Enterprise Manager occurs in Tivoli TEC. This ensures that the two systems are always synchronized and provides administrators with up-to-date information about their entire data center.

Licensed Links

The following links require licensing of the connector.

- From the Grid Control Home page, click the **Setup** link in the upper right corner of the page. Click the **Management Connectors** link in the side panel. Configuring the connector by clicking on the **Configure** icon is a licensed feature of the Management Connector for IBM Tivoli Enterprise Console.

- From the Grid Control Home page, click the **Preferences** link in the upper right corner of the page. Click the **Rules** link in the side panel, select a rule in the list, then click **Edit**. Click the **Methods** property page. In the Advanced Notification Methods table, any name associated with IBM Tivoli Enterprise Console is a licensed feature of the Management Connector for IBM Tivoli Enterprise Console.
- Click on any alert link, then click one of the metric alerts in the page that follows. The **Create/View Ticket** link in the Related Links section is a licensed feature of the Management Connector for IBM Tivoli Enterprise Console.

Licensed Repository Views

The following repository view is part of the Management Connector for IBM Tivoli Enterprise Console:

- MGMT\$CONNECTOR

Management Connector for Microsoft Operations Manager 2005

Enterprise Manager Management Connector for Microsoft Operations Manager (MOM) 2005 enables administrators to forward MOM events to Enterprise Manager, thereby enabling better correlation of IT problems across the technology stack.

Oracle Management Connector for Microsoft Operations Manager 2005 enables customers who manage their data centers using MOM to integrate with Enterprise Manager by enabling end-to-end event/alert sharing. The connector enables administrators to automatically forward MOM event messages to Enterprise Manager, as well as forward Enterprise Manager alerts to MOM.

Additionally, the connector manages all of the events that MOM forwards, and automatically updates alert information in the Enterprise Manager console whenever changes occur in MOM. A similar synchronization of alerts sent from Enterprise Manager occurs in MOM. This ensures that the two systems are always synchronized, and provides administrators with up-to-date information about their entire data center.

Licensed Links

The following links require licensing of the connector.

- From the Grid Control Home page, click the **Setup** link in the upper right corner of the page. Click the **Management Connectors** link in the side panel. Configuring the connector by clicking on the **Configure** icon is a licensed feature of the Management Connector for Microsoft Operations Manager.
- From the Grid Control Home page, click the **Preferences** link in the upper right corner of the page. Click the **Rules** link in the side panel, select a rule in the list, then click **Edit**. Click the **Methods** property page. In the Advanced Notification Methods table, any name associated with MOM is a licensed feature of the Management Connector for Microsoft Operations Manager.
- From the Grid Control Home page, select the **Alerts** tab, then select the **Critical** sub-tab. Click a critical alert **Target** name, then click one of the metric alerts in the page that follows. The **Create/View Ticket** link in the Related Links section is a licensed feature of the Management Connector for Microsoft Operations Manager.

Licensed Repository Views

The following repository view is part of the Management Connector for Microsoft Operations Manager 2005:

- MGMT\$CONNECTOR

Management Connector for Microsoft System Center Operations Manager

The Enterprise Manager Management Connector for Microsoft System Center Operations Manager (SCOM) provides seamless integration between Enterprise Manager and Microsoft System Center Operations Manager to support a seamless workflow for incident management and resolution.

Oracle Management Connector for Microsoft System Center Operations Manager enables customers who manage their data centers using Microsoft System Center Operations Manager to integrate with Enterprise Manager by enabling end-to-end event/alert sharing. The connector enables administrators to automatically forward Microsoft SCOM event messages to Enterprise Manager, as well as forward Enterprise Manager alerts to Microsoft SCOM.

Additionally, the connector manages all of the events that Microsoft SCOM forwards, and automatically updates alert information in the Enterprise Manager console whenever changes occur in Microsoft SCOM. A similar synchronization of alerts sent from Enterprise Manager occurs in Microsoft SCOM. This ensures that the two systems are always synchronized, and provides administrators with up-to-date information about their entire data center.

Licensed Links

The following links require licensing of the connector:

- From the Grid Control Home page, click the **Setup** link in the upper right corner of the page, then click the **Management Connectors** link in the side panel.
 - Configuring the connector by clicking the **Configure** icon is a licensed feature of the Management Connector for Microsoft System Center Operations Manager.
- From the Grid Control Home page, click the **Preferences** link in the upper right corner of the page. Click the **Rules** link in the side panel, select a rule in the list, then click **Edit**. Click the **Methods** property page.
 - In the Advanced Notification Methods table, any name associated with **Microsoft System Center Operations Manager** is a licensed feature of the Management Connector for Microsoft System Center Operations Manager.
- Click on any **Alert** link, then click one of the metric alerts in the page that follows.
 - The **Create/View Ticket** link in the Related Links section is a licensed feature of the Management Connector for Microsoft System Center Operations Manager.

Licensed Repository Views

The following repository view is part of the Management Connector for Microsoft System Center Operations Manager:

- MGMT\$CONNECTOR

Ops Center

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 Benefits

Ops Center simplifies complete system deployment by automating difficult provisioning tasks. It allows IT administrators to actively manage and monitor infrastructure resources from virtually anywhere on the network. Ops Center also simplifies software management of Oracle Solaris, Linux, and Windows using an advanced knowledge base accessible only through Oracle. Such a unique combination of features allows for a higher level of compliance to operational standards and guidelines.

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

Ops Center offers the depth of features at the hardware layer that Enterprise Manager customers are used to experiencing at the business service layers in operations. Oracle is committed to providing the best business-driven IT management solution across all layer of operations.

Ops Center Feature Packs

Ops Center is licensed by two feature packs:

- Oracle Enterprise Manager Ops Center Provisioning and Patch Automation Pack
- Oracle Enterprise Manager Ops Center Virtualization Management Pack

The Provisioning and Patch Automation Pack is a prerequisite for the Virtualization Management Pack. Please ensure the Provisioning and Patch Automation Pack is entitled before utilizing the Virtualization Management Pack.

Ops Center Provisioning and Patch Automation Pack Features

The Provisioning and Patch Automation Pack covers the core functionality of the framework, and the hardware and OS management features of the product offering. This pack facilitates the best way to leverage the infrastructure and operating systems in Oracle business service solutions.

Ops Center is designed to access and manage certain other software components and related data. In order to receive and use such software components or related updates, upgrades, and maintenance through Ops Center, you are always required during the term of your Ops Center license to have a valid license for such software components, and to comply with the terms of such license.

The Ops Center Provisioning and Patch Automation Pack includes the features described below.

Asset Management

Manage distributed assets from the same console. Leverage logical grouping and automated group assignment based on customizable attribute criteria. New hardware asset reporting down to the field replaceable unit (FRU) part numbers allows for quick searches. Automated correlation of server serial numbers to My Oracle Support contracts when connected to Oracle. New 2-D topology graphs with application awareness through Enterprise Manager Grid Control and network intelligence.

Enterprise Scalability

Architected and designed to take advantage of load balancing, complex network topologies, and large Agent environments.

Context-Driven User Interface

Feature-rich internet application that progresses the user through content-specific actions and workflow wizards.

Role Based Access Control

Roles that control a user's access to the feature set can be granted universally or for specific groups of assets.

Disconnected Mode

Choice of the operator to remain connected to Oracle in order to receive the highest level of knowledge transfer automation and protection, or to run in disconnected mode from Oracle wherein the operator is responsible for uploading content into the Enterprise Controller.

Compliance Automation

Reporting capabilities to schedule tests against target nodes, point-in-time comparisons, operational policies, or self-made software profiles. Version control over deployed files and a real-time connection to a U.S. government approved vulnerability repository for compliance checking.

Audit Reporting

Track software and configuration changes made with Ops Center through easily read reports.

Firmware Provisioning

Automatically download firmware from Oracle for servers and storage appliances. Coverage includes Service Processor (ILOM/ELOM/ALOM/XSCF), RAID HBA cards, and drive firmware. Ops Center automatically facilitates the remote network booting of the server off a mini-boot image in order to patch the drives.

RAID Device Configuration

Pre OS installation, and configure the RAID device that ships on many of Oracle's X-series and T-series volume servers.

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, and drive operational consistency. Leverage modules from Jumpstart Enterprise ToolKit (JET). Handle both ISO images and Oracle Solaris Flash Archive (FLAR).

Enhanced OS Patching

Leverage an enhanced dependency knowledge tree from Oracle across the four major operating systems: Red Hat, SuSE, Oracle Linux, and Oracle Solaris. Minimize downtime originating from software life cycles activities. Built-in awareness of Oracle Solaris Live Upgrade and alternate boot environments.

Remote Management

Leverage network protocols and the single system interfaces at the enterprise layer, where actions can be against many targets, rather than one for most of the exposed features.

Historical Monitoring

The ability to view past trends in monitored performance attributes.

Alarm Management

Alert correlation and aggregation under problems. Problems can be assigned to users left unassigned, closed, or acknowledged. Any problem in the product's Message Center can be used to open a Service Request with My Oracle Support from within Ops Center. Attach site-specific annotations to alert types. Offer time/duration awareness to alerts as to not be alarmed on short resource spikes. Attach pre-defined operational plans and actions to alerts. Impose deactivation periods for maintenance windows.

Windows Support

Windows patching using an out-of-box integration with Microsoft System Center Configuration Manager. Ops Center provides the same user interface and similar capabilities for patching to Oracle Solaris, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), and Oracle Linux. For Windows, Ops center offloads patching to Configuration Manager through an API. For other OS distributions, Ops Center patches them natively. Ops Center offers Windows comprehensive compliance reports and high-level performance monitoring with an agentless WMI connection.

Complex Plan Management

Ops Center offers the ability to create in-depth workflow plans by nesting server provisioning tasks into a comprehensive string of events. Formerly very distinct and separate tasks are now consolidated into a single plan. This increases consistency and allows for a greater level of abstraction, allowing more focus on the business service.

Oracle Solaris Cluster Support

Discover an Oracle Solaris Cluster environment and render its relationships to nodes properly in a new smart group. Full coverage of Oracle Solaris Cluster software in the Ops Center knowledge repository. This enables Ops Center to deploy and upgrade a Oracle Solaris Cluster. Higher level of automation of patching tasks once an Oracle Solaris Cluster is identified. Any Oracle Solaris patch job executed on a Cluster node will do what must be done in terms of the rolling patch upgrades across Cluster nodes. Full alarm integration with the Cluster framework. Display of configuration information such as resource groups, quorum devices, global file systems, disk groups, memberships, and so forth in the Ops Center topology. In-context link and launch of Oracle Solaris Cluster Manager.

Network Fabric Monitoring

Discover and map Oracle 10GBe and Infiniband Switches, NEMs, and HBA devices from the server point of view. See switch and port configuration information. Monitor port quality of service. Full alarm integration with the Oracle Fabric Manager and lights-out management ports on the devices. In-context link and launch of Oracle Fabric Manager.

Oracle Sun ZFS Storage Appliances

Discover Oracle Sun ZFS Storage Appliances properly in the topology. Observe configuration and service information of the device. Full hardware fault coverage and alarm integration. Discover new shared storage dynamically and present it automatically as location choices in the Oracle Solaris container and Oracle VM Server for SPARC creation wizards. In-context link and launch of appliance Analytics Dashboard.

Hardware Management

Increased level of hardware monitoring across the Oracle T-series, M-series, X-series, Network Appliances, and Storage Appliances. Granular information such as serial and part number for capable FRU components within the servers or devices. Deeper fault coverage from both the service processor and an improved on host agent so that a telemetry source is possible from both network location. Integration with Oracle Solaris FMA. Increased configuration possibilities on the various Oracle service processors.

M-series Dynamic Domains

Create provisioning plans that control the configuration of dynamic hardware domains. Choose UNI or quad configurations for processor boards. Select memory mirroring. Assignment of hardware resources is simplified. Offline or Online boards post provisioning. Remotely install Oracle Solaris on the resulting configuration. Save configurations and provision multiple M-series at the same time.

My Oracle Support Integration

As mentioned in the alarm management section, any problem discovered in Ops Center can be used to open a My Oracle Support Service Request automatically.

Leveraging the serial number and Oracle Configuration Manager (OCM) configuration information, Ops Center is able to automatically validate the asset for support. Ops Center then exposes a way to enter in My Oracle Support users and their Customer Support Identifier (CSI) user names so that administrators can choose which identification information they want to include in the Service Request. From within Ops Center, you can observe the Service Request status as it is worked from within Oracle. See summaries on Service Request per user or per asset.

OS Performance Monitoring

Increased level of Oracle Solaris and Linux OS performance monitoring. Both real-time status of attributes and historical charting.

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.

Energy Awareness

View historical and real-time energy consumption of individual servers or groups of servers in both WATT and KwH in terms of cost. View CPU utilization, temperature, and fan RPM trending in order to increase diagnostics of heat situations. View CPU affinity calculations. Observe the top and bottom energy consumers in the datacenter. Set the energy consumption policy on the server or groups of servers between Performance and Elastic modes.

Grid Control Integration

Experience a bi-directional integration between Enterprise Manager Grid Control and Ops Center. Discover targets as defined in Grid Control within the Ops Center topology. View the alarm information for those targets from within Ops Center. Protect against an operator taking action against a server or virtual machine that is running a production application workload. View hardware, OS, and virtualization information from Ops Center within Grid Control. From within Grid Control, execute Ops Center OS patching jobs against defined profiles. Experience the highest level of software and configuration compliance possible across the application and OS layers. Protect against an operator troubleshooting a performance issue as an application problem when it is clearly a hardware issue. In-context link and launch in both products to each other.

Licensed Links for Ops Center Provisioning and Patch Automation Pack

The following information describes the Enterprise Manager Ops Center browser user interface sections that require licensing of the Provisioning and Patch Automation Pack.

- Under the main Navigation section on the left-hand side, the following tabs are licensed under this pack:
 - **Message Center**
 - * All telemetry except Oracle Solaris Zones and Oracle VM Server for SPARC
 - **Assets**
 - * All views except Oracle Solaris Zones and Oracle VM Server for SPARC
 - **Plan Management**

- * All selections except Oracle VM Server for SPARC configuration plans, Oracle Solaris Zones alert monitoring profiles, and Oracle VM Server for SPARC alert monitoring profiles
- **Libraries**
 - * All sections except Fibre Channel Storage and NAS Storage for Oracle Solaris Zones and Oracle VM Server for SPARC
- **Reports**
- **Managed Networks**
 - * All views except Oracle Solaris Zones and Oracle VM Server for SPARC
- **Administration**
 - **Configuration** wizard at first login
 - **All Discovery** functionality
 - **Create/Destroy** action for logical and smart groups
 - Within the **Assets** pull-down, all selectable items except “Virtual Pools”
 - Within an asset’s home page, all tabs except the Oracle Solaris 10 Summary page for the global zone and an Oracle VM Server for SPARC hypervisor child node are licensed. All actions except those related to Oracle Solaris Zones and Oracle VM Server for SPARC are licensed under this pack.
 - Within a asset’s home page, all tabs except the Oracle Solaris 10 Summary page for the global zone and a Oracle VM Server for SPARC hypervisor child node. All actions except those related to Oracle Solaris Zones and Oracle VM Server for SPARC are licensed under this pack.

Note: The Ops Center command line and Java APIs are governed by the features they expose as described above for this licensed pack.

Oracle Enterprise Manager Ops Center Virtualization Management Pack Features

Ops Center Virtualization Pack is the best solution for Oracle VM Server for SPARC and Oracle Solaris Zones. Derive the fullest from the compute assets in terms of utilization and consolidation by leveraging these technologies. Ops Center can be used to gain control and operational awareness in environments that are rapidly growing to become larger and more complex.

The Ops Center Virtualization Management Pack includes the features described below.

Oracle Solaris Container Management

Full life-cycle management, including discovery, create, delete, configure, boot, shutdown, and monitor. Migration and mobility capabilities, including cold migration, clone, and update on attach.

Oracle VM Server for SPARC

Full life-cycle management, including discovery, create, delete, configure, boot, shutdown, and monitor. Migration and mobility capabilities, including warm migration and virtual pools.

Resource Virtual Pools

Ability to construct a grouping of T-series servers wherein Ops Center manages the network configuration, facilitates the movement and assignment of shared storage, keeps the members of the group compatible in terms of hypervisor requirements, and auto-balances workload based on virtual machines across the members so that load is distributed equally across the physical resource in the pool. View historical aggregations of performance metrics based on the entirety of the pool. When a new virtual machine is needed, allow Ops Center to find the best physical server in the pool at the time to house the workload based on a least load policy or least VM (in terms of quantity) policy.

Hypervisor/OS Provisioning

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. In one consistent flow, move from creating the construct of the virtual machine to installing an operating system into it.

Storage Orchestration

Check-in shared fiber, network, and local storage into Ops Center. Ops Center then keeps track of OS images and running or stopped virtual machines from the storage device's perspective. Ops Center automatically facilitates the usage of Oracle Sun ZFS Storage Appliances in the Oracle Solaris Container and Oracle VM Server for SPARC environments. The product keeps track of which physical asset is using a VM image at any given time, and protects against locking contention and damage. It moves the storage as needed between the owning members of the library. When migration of a virtual machine is desired, Ops Center shows only those candidates that share the same storage as selectable candidates.

Dynamic Resource Allocation

Leveraging the latest in Oracle Solaris Container and Oracle VM Server for SPARC technology, Ops Center allows for the real time changing of allocated resources.

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.

Oracle Solaris Global Zone

Configure global zone resource allocation and monitor resource consumption.

Network Configuration

Leverage more complex network topology in VM creation wizards that result in more redundant configurations based on IP multi-pathing and VLAN tagging.

Technology Abstraction Layer

Leverage and train staff based on one product and be able to use M-series dynamic hardware domains, T-series Oracle VM Server for SPARC, and Oracle Solaris Zones.

Create complex operational plans that contain nested tasks based on provisioning a server and creating virtual machines for each distinct virtualization technology and name it after a business service. Regardless of which new server arrives, a single named plan brings it online, leveraging the best virtualization technology for that server.

Historical Trending

View historical workload trends for Oracle Solaris Zones against one another on a central graph in order to analyze resource utilization.

Oracle Solaris Container Management

Experience a full range of provisioning option from sparse, whole root, or branded zones. Declare resource allocations based on fair share schedule or dedicated resources. Control attributes such as semaphores and share memory.

Oracle Solaris Zones and Patch Management

Facilitate “update on attach” actions from Ops Center as zones are migrated around to different global zones. Enable Ops Center to perform appropriately when patching local zones in concert with global targets.

Monitoring Profiles for V12N

Out-of-box monitoring attributes selected for issues more commonly associated to Oracle VM Server for SPARC and Oracle Solaris Container environments.

Dynamic Topology

Regardless of which order assets are discovered, created, or destroyed, Ops Center keeps true the child-to-parent relationship between the service processor, hypervisor, global zone, control domain, and virtual machine.

Image Library Management

Allow Ops Center to house all of your ISO and Oracle Solaris Flash Archive (FLAR) images for both physical and virtual provisioning.

Licensed Links for Ops Center Virtualization Management Pack

The following information describes the Enterprise Manager Ops Center browser user interface sections that require licensing of the Virtualization Management Pack.

- Under the main Navigation section on the left-hand side, the following tabs are licensed under this pack:
 - **Assets**
 - * Only the **Oracle Solaris Zones** and **Oracle VM Server for SPARC** views and actions
 - **Plan Management**
 - * Only the **Oracle VM Server for SPARC** configuration plans, **Oracle Solaris Zones**, and **Oracle VM Server for SPARC** alert monitoring profiles
 - **Libraries**

- * Only the **Fibre Channel Storage** and **NAS Storage for Oracle Solaris Zones**, and **Oracle VM Server for SPARC**
- **Managed Networks**
 - * Only the Oracle Solaris Zones and Oracle VM Server for SPARC views
- Within the **Assets** pull down, only the “**Virtual Pools**”
- Within an asset’s home page, only the **Oracle Solaris 10 Summary** page for the global zone and an **Oracle VM Server for SPARC hypervisor** child node. Only the actions related to **Oracle Solaris Zones** and **Oracle VM Server for SPARC** are licensed under this pack.

Note: The Ops Center command line and Java APIs are governed by the features they expose as described above for this licensed pack.

User Experience Management

The following sections in this chapter describe the licensed features and links of Oracle Enterprise Manager User Experience Management.

Real User Experience Insight

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

Capabilities

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

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

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

Features

Oracle RUEI offers the following features:

- Replay of poor performance
- Executive dashboards
- Extensive Key Performance Indicators (KPIs) and SLA monitoring
- Full alerting capabilities
- Quick bottleneck analyses

- Transaction performance analyses
- Customized reporting
- Trend analyses
- Full data integration through XML

After licensing Real User Experience Insight, you can also license the following Accelerators to gain out-of-the-box monitoring support for specified Oracle applications and additional features as indicated below.

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

Licensed Links

All of the pages in Oracle Real User Experience Insight are licensed features of Real User Experience Insight and the accelerators. Additionally, RUEI includes the full capabilities of Enterprise Manager Grid Control Service Level Management.

Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of Real User Experience Insight.

- `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 Grid Control Service Level Management

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

Enterprise Manager Grid Control Service Level Management was introduced as a standalone Service Level Management Pack with Enterprise Manager version 10g release 2. In Enterprise Manager 11g, Service Level Management is licensed as part of Oracle Real User Experience Insight. 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 use the following specific functionality without licensing the Service Level Management Pack 11g release 1:

- Web Application service test monitoring with HTTP and HTTP(s) protocols
- Host monitoring with ping protocol

Note: Any and all methods of accessing pack functionality — whether through the Enterprise Manager Console, Desktop Widgets, command-line APIs, or direct access to the underlying data — require the Oracle Real User Experience Insight license.

Customers who previously licensed the standalone Service Level Management Pack can continue to use Enterprise Manager Grid Control Service Level Management under their previously licensed terms. However, they are not entitled to use the capabilities contained in Oracle Real User Experience Insight.

Features

Enterprise Manager Grid Control Service Level Management includes the features shown in [Table 8-1](#).

Table 8-1 Feature Highlights of Enterprise Manager Grid Control Service Level Management

Feature	Benefit
Service modeling	Model critical business functions based on a wide range of supported protocols.
Complete service monitoring	Monitor service availability, performance, usage, and service level compliance.
Beacons	Measure availability and performance from representative key user locations.

Enterprise Manager Grid Control Service Level Management Licensed Links

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

Services Links

Licensed services links consist of configuration pages and monitoring pages.

- For configuration pages, from the Enterprise Manager Home page, go to the **Targets** tab and then select the **Services** sub-tab:
 - On the Services page, select **Generic Service** from the Add drop-down, then click **Go** to add the service. Select **Service Test** from the drop-down list on the

Availability page of the Create Service wizard. Defining a service's availability based on the execution of a service test is a licensed feature of Real User Experience Insight.

- On the Services page, select **Generic Service** from the Add drop-down, then click **Go** to add the service. The **Beacons page** of the Create Generic Service wizard is a licensed feature of Real User Experience Insight.
- 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 Real User Experience Insight.
- 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 Real User Experience Insight.
- 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 Real User Experience Insight.
- For monitoring pages, from the Enterprise Manager Home page, go to the Targets tab and then select the **Services** sub-tab:
 - Click a service **Name link** in the table to go to the Service Home page. The **Test Performance sub-tab** and **Black Out button** are licensed features of Real User Experience Insight.
 - On the Service Home page, click the **Test Performance** sub-tab. **All links and controls** on this page are licensed as part of Real User Experience Insight.
- The following Related Links are also part of Real User Experience Insight:
 - **Alert History**
 - **Blackouts**
 - **Metric Baselines**
 - **Past Changes**
 - **Pending Changes** (where applicable)

Forms Application Links

Licensed services links consist of configuration pages and monitoring pages.

- For configuration pages, from the Enterprise Manager Home page, go to the **Targets** tab and then select the **Services** sub-tab:
 - 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 Real User Experience Insight.
 - 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 Real User Experience Insight.

- 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 Real User Experience Insight.
- 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 Real User Experience Insight.
- For monitoring pages, from the Enterprise Manager Home page, go to the **Targets** tab and then select the **Services** sub-tab:
 - 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 Real User Experience Insight.
- The following Related Links are also part of Real User Experience Insight:
 - **Alert History**
 - **Blackouts**
 - **Metric Baselines**
 - **Past Changes**
 - **Pending Changes** (where applicable)

Application Testing Suite

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

- [Oracle Test Manager](#)
This product enables you to document and manage the overall test process, including test requirements, test cases, and issues.
- [Oracle Functional Testing](#)
This product enables you to automate functional and regression testing of Web applications and Web Services.
- [Oracle Load Testing](#)
This product enables you to automate load testing of Web applications and Web Services.

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

Oracle Test Manager

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

Oracle Functional Testing

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

OpenScript Component

The OpenScript component of Oracle Functional Testing is the interface where you create and run your test automation scripts, and does not require a separate license. If you are licensed for Oracle Functional Testing, you can automatically access OpenScript and the base testing modules for Web Functional Testing and Web Load Testing script generation. Other application testing modules or accelerators developed for OpenScript may be licensed and priced separately.

Oracle Functional Testing Accelerators

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

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

The following Functional Testing Accelerators are currently available:

- **Functional Testing Accelerator for Web Services**

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

- **Functional Testing Accelerator for Siebel**

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

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

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

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

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

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

Dependencies with Oracle Load Testing

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

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

capabilities, you must purchase separate additional licenses of Oracle Functional Testing.

Oracle Load Testing

The following licensed components are required for Oracle Load Testing:

- **Load Testing**

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

- **Load Testing Controller**

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

Oracle Load Testing Accelerators

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

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

The following Load Testing Accelerators are currently available:

- **Load Testing Accelerator for Web Services**

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

- **Load Testing Accelerator for Siebel**

This Accelerator provides faster load testing of Siebel CRM applications by providing specialized capabilities for creating Siebel load test scripts. You can load test your Siebel applications by simulating thousands of concurrent users running Siebel Web transactions.

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

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

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

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

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

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

- **Load Testing Accelerator for Oracle Database**

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

Dependencies with Oracle Functional Testing

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

Oracle Load Testing Developer Edition

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

Restricted Use Licenses Provided with Application Testing Suite

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

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

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



Application Management

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

- [Application Management Suite for Siebel](#)
- [Application Management Suite for PeopleSoft](#)
- [Application Management Suite for Oracle E-Business Suite](#)

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

Application Management Suite for Siebel

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

The Application Management Suite for Siebel is comprised of the following four physical components:

- Siebel Plug-in (built into Enterprise Manager 11g Grid Control)
- Real User Experience Insight (RUEI)
- Application Configuration Console (ACC)
- Configuration Change Console (CCC)

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

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

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

Features

The Application Management Suite for Siebel includes the features shown in [Table 10–1](#).

Table 10–1 Feature Highlights of Application Management Suite for Siebel

Feature	Benefit
Automatic discovery	<ul style="list-style-type: none"> Discover Siebel components. Create system and services targets with all of the associated infrastructure components.
Monitoring and diagnostics	<ul style="list-style-type: none"> Receive real-time metrics and historical data as well as alert notifications. Examine log files for information pertinent to identifying problem root causes. Analyze SARM data to identify transaction bottlenecks.
Configuration management	Ability to: <ul style="list-style-type: none"> Track configuration parameters. Take configuration snapshots. Compare configurations.
Service level management	Monitor Siebel applications using beacon transactions and service dashboards.
Administration	Start and stop the Siebel Server and server components.
Event log analysis	Find relevant log files to troubleshoot problems faster.
Workflow process and policy monitoring	Quickly and proactively identify the first indication of problems before they cause major disruptions to business processing.
Real user monitoring	Obtain comprehensive insights on how end-users use the application and the experience that is delivered.
Java Diagnostics for Java EE-based Siebel Component	Comprehensive diagnostics of the Java problem at the JVM level.

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

Features

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

Licensed Links for Siebel

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

- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Siebel** sub-tab and select the **Siebel Enterprise View** from the drop-down list:
 - The **Siebel System Targets page** is a licensed feature of the Application Management Suite for Siebel.
 - From the Siebel System Targets page, click **Add Siebel Enterprise**. The **Add Siebel Enterprise page** and all subsequent pages within the process are licensed features of the Application Management Suite for Siebel.
 - From the Siebel System Targets page, select a link for a **Siebel Enterprise**. The **Siebel Enterprise Home and all subsequent pages** accessed through the Home Page are licensed features of the Application Management Suite for Siebel.
 - From the Siebel System Targets page, select a link for a **Siebel Server**. The **Siebel Server Home and all subsequent pages** accessed through the Home Page are licensed features of the Application Management Suite for Siebel.
- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Systems** sub-tab:
 - 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 of the Application Management Suite for Siebel.

Service Level Management

Features associated with Enterprise Manager Grid 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 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.

Licensed Links

The following lists describe the Enterprise Manager links that require licensing of the Application Management Suite for Siebel. This information does not include feature links that may contain information derived from the creation of tests and beacons, but are considered part of Service Level Management.

- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Services** sub-tab:
 - On the Services page, click the link in the **Name** column for a service with any of the Siebel Application Service types. The **Application Services Page and all subsequent pages** within the page hierarchy are licensed features of the Application Management Suite for Siebel.
- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Siebel** sub-tab and select **Service View** from the drop-down list:
 - On the Services page, click **Add** to add a service. The **Beacons page** of the Add Services wizard is a licensed feature of Service Level Management within Application Management Suite for Siebel.
 - On the **Services** page, click **Add** to add a service. Defining a service's availability based on the execution of a service test by selecting **Service Test** from the drop-down menu on the Availability page of the wizard is a licensed feature of Service Level Management within Application Management Suite for Siebel.
 - On the Service page, select **Monitoring Configuration**. The **Service Tests and Beacons link** in the Generic Tasks section is a licensed feature of Service Level Management within the Application Management Suite for Siebel.
 - On the Service page, select **Monitoring Configuration**. Select **Availability Definition** from the Generic Tasks section. Defining the service's availability based on the execution of a service test by selecting **Service Test** from the drop-down menu on the Availability Definition page is a licensed feature of Service Level Management within Application Management Suite for Siebel.
- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Siebel** sub-tab and select **Service View** from the drop-down list:
 - On the Siebel Application Service page, click **Add** to define a service to model and monitor a business process or application. The **Beacons page** of the Add Siebel Application wizard is a licensed feature of Service Level Management within Application Management Suite for Siebel.
 - On the Siebel Application Service page, click **Add** to define a service to model and monitor a business process or application. Defining a Siebel application's availability based on the execution of a service test by selecting **Service Test** from the drop-down menu on the Availability page of the wizard is a licensed feature of Service Level Management within Application Management Suite for Siebel.
 - On the Siebel Application Service page, select **Monitoring Configuration**. The **Service Tests and Beacons link** in the Generic Tasks section is a licensed feature of Service Level Management within Application Management Suite for Siebel.
 - On the Siebel Application Service page, select **Monitoring Configuration**. Select **Availability Definition** from the Generic Tasks section. Defining the service's availability based on the execution of a service test by selecting **Service Test** from the drop-down menu on the Availability Definition page is a

licensed feature of Service Level Management within Application Management Suite for Siebel.

- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **All Targets** sub-tab. From the All Targets page, navigate to an Agent Home page. The **Add Beacon option** from the Add drop-down menu is a licensed feature of Service Level Management within Application Management Suite for Siebel.

Licensed Command Line Interface (CLI) Verbs

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

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

Configuration Management

Configuration management automates the 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 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)

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

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

Additional Licensed Configuration Management Capabilities

Application Management Suite for Siebel includes a limited use license of Application Configuration Console (ACC) and Configuration Change Console (CCC). These two tools can be used against operating system targets and Siebel application targets as specified above. You can obtain further licensing information for ACC and CCC in [Chapter 6, "Other Infrastructure Management"](#) under the Additional Licensed Features section of ["Configuration Management Pack for Applications"](#).

Licensed Links

The following licensed pages and links of this 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).

- Grid Control Home page:
 - **All links** in the All Targets Policy Violations section
 - **Hardware and Operating System related information** in the Deployment Summary sections
 - **All links** in the Security Policy Violations section
- From the Grid Control Home page, click the **Deployments** tab. On the Deployments page, the following items are licensed features of Configuration Management within the Application Management Suite for Siebel:
 - **Hardware and Operating System related information** in the Deployment Summary sections.
 - **All links** in the Configuration section.
 - **All links** in the Client Configurations section.

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, Application Management Suite for PeopleSoft Enterprise, Applications Management Pack for Siebel, and Configuration Pack for Oracle Middleware.

- From the Grid Control Home page, select the **Compliance** tab, then the **Policies** sub-tab to display the Policy Violations page. 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 Grid Control Policies Violations page for information related to hosts are licensed features of Configuration Management within the Application Management Suite for Siebel.
- From the Grid Control Home page, select the **Compliance** tab, then the **Security at a Glance** sub-tab. On the Grid Control Security at a Glance page, **all links related to information on the host** are licensed features of Configuration Management within the Application Management Suite for Siebel.
- From the Grid Control Home page, click the **Targets** tab, then select the **Hosts** sub-tab. On the Grid Control Hosts page, the following items are licensed features

of Configuration Management within the Application Management Suite for Siebel:

- **Policy Violations link**
- **Compliance Score (%)**
- From the Grid Control Hosts page, click a specific host to display the Host Home page. The following links are licensed features of Configuration Management within the Application Management Suite for Siebel:
 - **All links** in the Configuration section
 - **All links** in the Policy Violations section
 - **All links** in the Security section
 - Under Related Links, the following links are licensed:
 - * **Deployments**
 - * **Metric and Policy Settings**
- From the Host Home page, click the **Targets** tab. The following links and columns are licensed:
 - **Policy Violations and associated links**
 - **Compliance Score (%)**
- From the Host Home page, click the **Configuration** tab. **All features, links, and information** on the Configuration tab are licensed features of Configuration Management within the Application Management Suite for Siebel.
- From the Grid Control Home page, click the **Targets** tab, then select the **Systems** sub-tab. On the **Systems** page, the following item is a licensed feature of Configuration Management within the Application Management Suite for Siebel:
 - **Policy Violations link**
- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. On the Groups page, the following item is a licensed feature of Configuration Management within the Application Management Suite for Siebel:
 - **Policy Violations link**
- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. Select a **group**. On the Group Home page, the following items are licensed features of Configuration Management within the Application Management Suite for Siebel:
 - **All links** in the Configuration Changes section
 - **All links** in the Policy Violations section
 - **All links** in the Security Policy Violations section
- From the Groups Home page, click the **Administration** tab. The following links are licensed features of Configuration Management within the Application Management Suite for Siebel:
 - **Hardware and Operating System related information** in the Deployment Summary sections
 - **Configuration Searches feature** for host and operating systems

- From the Groups Home page, click the **Members** tab. The following links are licensed features of Configuration Management within the Application Management Suite for Siebel:
 - **All links** and the information in the Policy Violations column

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** tab on the Grid Control Home page.

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

Licensed Repository Views

The following 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
- **Configuration Views**
 - mgmt\$db_tablespace
 - mgmt\$db_datafiles
 - mgmt\$db_controlfiles
- **Oracle Home Patching**

- MGMT\$CPF_ADVISORY_INFO
- MGMT\$CPF_HOMES_INFO
- MGMT\$CPF_PATCH_INFO
- MGMT\$EM_HOMES_PLATFORM
- MGMT\$HOMES_AFFECTED
- MGMT\$PATCH_ADVISORIES
- MGMT\$APPL_PATCH_AND_PATCHSET
- MGMT\$APPLIED_PATCHES
- MGMT\$APPLIED_PATCHSETS
- **Linux Patching**
 - MGMT\$HOSTPATCH_HOSTS
 - MGMT\$HOSTPATCH_GROUPS
 - MGMT\$HOSTPATCH_GRP_COMPL_HIST
 - MGMT\$HOSTPATCH_HOST_COMPL
- **Security Views**
 - MGMT\$ESA_ALL_PRIVS_REPORT
 - MGMT\$ESA_ANY_DICT_REPORT
 - MGMT\$ESA_ANY_PRIV_REPORT
 - MGMT\$ESA_AUDIT_SYSTEM_REPORT
 - MGMT\$ESA_BECOME_USER_REPORT
 - MGMT\$ESA_CATALOG_REPORT
 - MGMT\$ESA_CONN_PRIV_REPORT
 - MGMT\$ESA_CREATE_PRIV_REPORT
 - MGMT\$ESA_DBA_GROUP_REPORT
 - MGMT\$ESA_DBA_ROLE_REPORT
 - MGMT\$ESA_DIRECT_PRIV_REPORT
 - MGMT\$ESA_EXMPT_ACCESS_REPORT
 - MGMT\$ESA_KEY_OBJECTS_REPORT
 - MGMT\$ESA_OH_OWNERSHIP_REPORT
 - MGMT\$ESA_OH_PERMISSION_REPORT
 - MGMT\$ESA_POWER_PRIV_REPORT
 - MGMT\$ESA_PUB_PRIV_REPORT
 - MGMT\$ESA_SYS_PUB_PKG_REPORT
 - MGMT\$ESA_TABSP_OWNERS_REPORT
 - MGMT\$ESA_TRC_AUD_PERM_REPORT
 - MGMT\$ESA_WITH_ADMIN_REPORT
 - MGMT\$ESA_WITH_GRANT_REPORT

- **Client Configurations Views**

- MGMT\$CSA_COLLECTIONS
- MGMT\$CSA_FAILED
- MGMT\$CSA_HOST_OS_COMPONENTS
- MGMT\$CSA_HOST_SW
- MGMT\$CSA_HOST_COOKIES
- MGMT\$CSA_HOST_CUSTOM
- MGMT\$CSA_HOST_RULES
- MGMT\$CSA_HOST_CPUS
- MGMT\$CSA_HOST_IOCARDS
- MGMT\$CSA_HOST_NICS
- MGMT\$CSA_HOST_OS_PROPERTIES
- MGMT\$CSA_HOST_OS_FILESYSTEMS
- MGMT\$ECM_CONFIG_HISTORY
- MGMT\$ECM_CONFIG_HISTORY_KEY1
- MGMT\$ECM_CONFIG_HISTORY_KEY2
- MGMT\$ECM_CONFIG_HISTORY_KEY3
- MGMT\$ECM_CONFIG_HISTORY_KEY4
- MGMT\$ECM_CONFIG_HISTORY_KEY5
- MGMT\$ECM_CONFIG_HISTORY_KEY6
- MGMT\$HW_NIC
- MGMT\$OS_COMPONENTS
- MGMT\$OS_FS_MOUNT
- MGMT\$OS_HW_SUMMARY
- MGMT\$OS_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

Jave EE-based Siebel Components

You can only use the following pages against Java EE-based Siebel Servers running Siebel self-service 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 Application Management Suite for Siebel.
- All of the pages in Weblogic Server are licensed features of the Application Management Suite for Siebel.
- All of the pages in the OC4J-based Oracle Internet Application Server are licensed features of the Application Management Suite for Siebel.

Application Management Suite for PeopleSoft

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 significantly reduces the cost and complexity of managing PeopleSoft Enterprise environments.

The Application Management Suite for Siebel is comprised of four physical components:

- Siebel Plug-in (built into Enterprise Manager 11g Grid Control)
- Real User Experience Insight (RUEI)
- Application Configuration Console (ACC)
- Configuration Change Console (CCC)

The management suite contains a restricted use license of RUEI, ACC, and CCC for use against the core Siebel application.

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

Features

The Application Management Suite for PeopleSoft includes the features shown in [Table 10-2](#).

Table 10-2 Feature Highlights of Application Management Suite for PeopleSoft

Feature	Benefit
Automatic discovery	<ul style="list-style-type: none"> ▪ Discover PeopleSoft Enterprise components. ▪ Create a system with all of the associated infrastructure components.
Monitoring and diagnostics	<ul style="list-style-type: none"> ▪ Receive real-time metrics, Tuxedo queues, and historical data as well as alert notifications. ▪ Examine log files for information pertinent to identifying problem root causes.

Table 10–2 (Continued) Feature Highlights of Application Management Suite for

Feature	Benefit
Configuration management	Ability to: <ul style="list-style-type: none"> ▪ Track configuration parameters. ▪ Take configuration snapshots. ▪ Compare configurations.
Service level management	Monitor PeopleSoft Enterprise applications using beacon transactions and service dashboards.
Administration	<ul style="list-style-type: none"> ▪ Start and stops PeopleSoft components. ▪ Define PeopleSoft domains. ▪ Clear cache.
Real user monitoring	Obtain comprehensive insights on how end users use the application and the experience that is delivered.
Java Diagnostics for Java-based PeopleSoft Components	Get comprehensive diagnostics of the Java problem at the JVM level.

Real User Monitoring

The Application Management Suite for PeopleSoft'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, "User Experience Management"](#) 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.

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.

Licensed Links for PeopleSoft

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

- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **PeopleSoft** sub-tab:
 - The **All PeopleSoft Targets** page is a licensed feature of the Application Management Suite for PeopleSoft.
 - From the All PeopleSoft Targets page, click **Add PeopleSoft Targets**. The **Add PeopleSoft Targets** page and all subsequent pages within the process are licensed features of the Application Management Suite for PeopleSoft.
 - From the All PeopleSoft Targets page, the options to create a **PS Application Server Domain**, **PS Process Scheduler Domain**, or **PS Search Server Domain** are licensed features of the Application Management Suite for PeopleSoft.
 - From the All PeopleSoft Targets page, select a link for a PS Application Server Domain type. The **PS Application Server Domain Home**, **Performance**, **Administration**, and **Log** pages are licensed features of the Application Management Suite for PeopleSoft.
 - From the All PeopleSoft Targets page, select a link for a PS Process Scheduler Domain type. The **PS Process Scheduler Domain Home**, **Performance**, **Administration**, and **Log** pages are licensed features of the Application Management Suite for PeopleSoft.
 - From the All PeopleSoft Targets page, select a link for a PS Search Server Domain type. The **PS Search Server Domain Home**, **Performance**, **Administration**, and **Log** pages are all licensed features of the Application Management Suite for PeopleSoft.
 - From the All PeopleSoft Targets page, select a link for a PS PIA type. The **PS PIA Home**, **Performance**, **Administration**, and **Log** pages are licensed features of the Application Management Suite for PeopleSoft.
 - From the All PeopleSoft Targets page, select a link for a PS Web Site type. The **PS Web Site Home**, **Performance**, **Administration**, and **Log** pages are licensed features of the Application Management Suite for PeopleSoft.
 - From the All PeopleSoft Targets page, select a link for a PS Application Database type. The **PS Application Database Home** and **Configuration** pages are licensed features of the Application Management Suite for PeopleSoft.
- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Systems** sub-tab:
 - On the Systems page, click the link in the **Name** column for a system with Type of PeopleSoft System. The **PeopleSoft System Home**, **Chart**, **Administration**, **Components**, **Topology**, **Edit PeopleSoft System**, **PeopleSoft System URL Setup** and **Report** pages are licensed features of the Application Management Suite for PeopleSoft.
 - From the System page, click the **Topology** sub-tab. From the topology viewer, the ability to act (for example, Start Domain or Stop Domain for a PS Application Server) on any PeopleSoft-supported component via a right mouse click is a licensed feature of the Application Management Suite for PeopleSoft.

Service Level Management for PeopleSoft

Features associated with Service Level Management for PeopleSoft are also licensed as part of the Application Management Suite for PeopleSoft. 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.

Licensed Links

The following lists describe the Enterprise Manager links that require licensing of the Application Management Suite for PeopleSoft. This information does not include feature links that may contain information derived from the creation of tests and beacons, but are considered part of Service Level Management.

- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Services** sub-tab:
 - On the Services page, click **Add** to add a service. The **Beacons** page of the Add Services wizard is a licensed feature of Service Level Management within the Application Management Suite for PeopleSoft.
 - On the Services page, click **Add** to add a service. Defining a service's availability based on the execution of a service test by selecting **Service Test** from the drop-down menu on the Availability page of the wizard is a licensed feature of the Service Level Management within the Application Management Suite for PeopleSoft.
 - On the Service page, select **Monitoring Configuration**. The **Service Tests and Beacons** link in the Generic Tasks section is a licensed feature of Service Level Management within the Application Management Suite for PeopleSoft.
 - On the Service page, select **Monitoring Configuration**. Select **Availability Definition** from the Generic Tasks section. Defining the service's availability based on the execution of a service test by selecting **Service Test** from the drop-down menu on the Availability Definition page is a licensed feature of Service Level Management within the Application Management Suite for PeopleSoft.
- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **All Targets** sub-tab. From the All Targets page, navigate to an Agent Home page. The **Add Beacon** option from the Add drop-down menu is a licensed feature of Service Level Management within the Application Management Suite for PeopleSoft.

Licensed Command Line Interface (CLI) Verbs

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

- emcli apply_template_tests
- emcli create_service
- emcli add_target

Configuration Management for PeopleSoft

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

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

Additional Licensed Configuration Management Capabilities

Application Management Suite for PeopleSoft includes a limited use license of Application Configuration Console (ACC) and Configuration Change Console (CCC). These tools can be used against PeopleSoft application targets, as specified above, and operating system targets. Licensing information for ACC and CCC is available in [Chapter 10, "Application Management"](#) under the "Additional Licensed Features" section of "[Configuration Management Pack for Applications](#)".

Licensed Links

The following licensed pages and links of this pack apply to PeopleSoft-specific targets within Enterprise Manager. These targets include PeopleSoft System, PS Application Server Domain, PS Process Scheduler Domain, PS Search Server Domain, PS Web Site, PS Application Server Database, and PS PIA.

- Grid Control Home page:

- **All links** in the All Targets Policy Violations section
- **Hardware and Operating System related information** in the Deployment Summary sections
- All links in the **Security Policy Violations** section
- From the Grid Control Home page, click the **Deployments** tab. On the Deployments page, the following items are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
 - **Hardware and Operating System related information** in the Deployment Summary sections.
 - **All links** in the Configuration section
 - **All links** in the Client Configurations section

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, Application Management Suite for PeopleSoft, Applications Management Pack for Siebel, and Configuration Pack for Oracle Middleware.

- From the Grid Control Home page, select the **Compliance** tab, then the **Policies sub-tab** to display the Policy Violations page. 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 Grid Control Policies Violations page for information related to hosts are licensed features of Configuration Management within the Application Management Suite for PeopleSoft.
- From the Grid Control Home page, select the **Compliance** tab, then the **Security at a Glance** sub-tab. On the Grid Control Security at a Glance page, all links related to information on the host are licensed features of Configuration Management within the Application Management Suite for PeopleSoft.
- From the Grid Control Home page, click the **Targets** tab, then select the **Hosts** sub-tab. On the Grid Control Hosts page, the following items are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
 - **Policy Violations link**
 - **Compliance Score (%)**
- From the Grid Control Hosts page, click a specific host to display the Host Home page. The following links are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
 - **All links** in the Configuration section
 - **All links** in the Policy Violations section
 - **All links** in the Security section
 - Under Related Links, the following links are licensed:
 - * **Deployments**

* Metric and Policy Settings

- From the Host Home page, click the **Targets** tab. The following links and columns are licensed:
 - **Policy Violations and associated links**
 - **Compliance Score (%)**
- From the Host Home page, click the **Configuration** tab. All features, links, and information on the Configuration tab are licensed features of Configuration Management within the Application Management Suite for PeopleSoft.
- From the Grid Control Home page, click the **Targets** tab, then select the **Systems** sub-tab. On the Systems page, the following items are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
 - **Policy Violations link**
- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. On the Groups page, the following items are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
 - **Policy Violations link**
- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. Select a group. On the Group Home page, the following items are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
 - **All links** in the Configuration Changes section
 - **All links** in the Policy Violations section
 - **All links** in the Security Policy Violations section
- From the Groups Home page, click the **Administration** tab. The following links are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
 - **Hardware and Operating System related information** in the Deployment Summary sections
 - **Configuration Searches feature** for host and operating systems
- From the Groups Home page, click the **Members** tab. The following links are licensed features of Configuration Management within the Application Management Suite for PeopleSoft:
 - **All links and the information** in the Policy Violations column

Licensed Reports

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

- **All reports** under Deployment and Configuration
- Monitoring reports
 - **Alerts and Policy Violations**

- **Disabled Policies**
- Security reports
 - **Security Policy Overview**

Licensed Repository Views

The following 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
- **Configuration Views**
 - mgmt\$db_tablespace
 - mgmt\$db_datafiles
 - mgmt\$db_controlfiles
- **Oracle Home Patching**
 - MGMT\$CPF_ADVISORY_INFO
 - MGMT\$CPF_HOMES_INFO
 - MGMT\$CPF_PATCH_INFO
 - MGMT\$EM_HOMES_PLATFORM
 - MGMT\$HOMES_AFFECTED
 - MGMT\$PATCH_ADVISORIES
 - MGMT\$APPL_PATCH_AND_PATCHSET
 - MGMT\$APPLIED_PATCHES
 - MGMT\$APPLIED_PATCHSETS
- **Linux Patching**
 - MGMT\$HOSTPATCH_HOSTS

- MGMT\$HOSTPATCH_GROUPS
- MGMT\$HOSTPATCH_GRP_COMPL_HIST
- MGMT\$HOSTPATCH_HOST_COMPL
- **Security Views**
 - MGMT\$ESA_ALL_PRIVS_REPORT
 - MGMT\$ESA_ANY_DICT_REPORT
 - MGMT\$ESA_ANY_PRIV_REPORT
 - MGMT\$ESA_AUDIT_SYSTEM_REPORT
 - MGMT\$ESA_BECOME_USER_REPORT
 - MGMT\$ESA_CATALOG_REPORT
 - MGMT\$ESA_CONN_PRIV_REPORT
 - MGMT\$ESA_CREATE_PRIV_REPORT
 - MGMT\$ESA_DBA_GROUP_REPORT
 - MGMT\$ESA_DBA_ROLE_REPORT
 - MGMT\$ESA_DIRECT_PRIV_REPORT
 - MGMT\$ESA_EXMPT_ACCESS_REPORT
 - MGMT\$ESA_KEY_OBJECTS_REPORT
 - MGMT\$ESA_OH_OWNERSHIP_REPORT
 - MGMT\$ESA_OH_PERMISSION_REPORT
 - MGMT\$ESA_POWER_PRIV_REPORT
 - MGMT\$ESA_PUB_PRIV_REPORT
 - MGMT\$ESA_SYS_PUB_PKG_REPORT
 - MGMT\$ESA_TABSP_OWNERS_REPORT
 - MGMT\$ESA_TRC_AUD_PERM_REPORT
 - MGMT\$ESA_WITH_ADMIN_REPORT
 - MGMT\$ESA_WITH_GRANT_REPORT
- **Client Configurations Views**
 - MGMT\$CSA_COLLECTIONS
 - MGMT\$CSA_FAILED
 - MGMT\$CSA_HOST_OS_COMPONENTS
 - MGMT\$CSA_HOST_SW
 - MGMT\$CSA_HOST_COOKIES
 - MGMT\$CSA_HOST_CUSTOM
 - MGMT\$CSA_HOST_RULES
 - MGMT\$CSA_HOST_CPUS
 - MGMT\$CSA_HOST_IOCARDS
 - MGMT\$CSA_HOST_NICS

- MGMT\$CSA_HOST_OS_PROPERTIES
- MGMT\$CSA_HOST_OS_FILESYSTEMS
- MGMT\$ECM_CONFIG_HISTORY
- MGMT\$ECM_CONFIG_HISTORY_KEY1
- MGMT\$ECM_CONFIG_HISTORY_KEY2
- MGMT\$ECM_CONFIG_HISTORY_KEY3
- MGMT\$ECM_CONFIG_HISTORY_KEY4
- MGMT\$ECM_CONFIG_HISTORY_KEY5
- MGMT\$ECM_CONFIG_HISTORY_KEY6
- MGMT\$HW_NIC
- MGMT\$OS_COMPONENTS
- MGMT\$OS_FS_MOUNT
- MGMT\$OS_HW_SUMMARY
- MGMT\$OS_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

Java-based PeopleSoft 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.
- All of the pages in the OC4J-based Oracle Internet Application Server are licensed features of the Application Management Suite for PeopleSoft.

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. By building Oracle E-Business Suite management and monitoring on top of Oracle's rich and comprehensive management solution, the Oracle Application Management Suite for Oracle E-Business Suite significantly reduces the cost and complexity of managing Oracle E-Business Suite environments.

The following sections discuss the licensed features and links for the Application Management Suite for Oracle E-Business Suite as well as the Service Level Management and Configuration Management licensed features and links within this product. The information describes the Enterprise Manager links that require licensing of the Application Management Suite for Oracle E-Business Suite. The list that follows assumes that you begin from the main Grid Control Home page.

Features

The Application Management Suite for Oracle E-Business Suite includes the features shown in [Table 10–3](#).

Table 10–3 Feature Highlights of Oracle E-Business Suite

Feature	Benefit
Automatic discovery	<ul style="list-style-type: none"> Discover Oracle E-Business Suite components. Create system and services targets with all of the associated infrastructure components.
Monitoring and diagnostics	<ul style="list-style-type: none"> Receive real-time metrics and historical data as well as alert notifications. Access JVM statistics. Run E-Business Suite diagnostic tests through OAM integration.
Configuration management	Ability to: <ul style="list-style-type: none"> Track configuration parameters. Take configuration snapshots. Compare configurations.
Service level management	Monitor Oracle E-Business Suite applications using beacon transactions and service dashboards.
Cloning	<ul style="list-style-type: none"> Automate cloning of Oracle E-Business Suite environments via a web-based tool. Created and manage clone images. Scramble sensitive business data.
Real user monitoring	Obtain comprehensive insights on how end users use the application and the experience that is delivered.
Java Diagnostics for Java-based Oracle E-Business Suite Components	Obtain comprehensive diagnostics of Java problems at the JVM level.

Real User Monitoring

The Application Management Suite for Oracle E-Business Suite's Real User Monitoring offers optional packages for each supported Oracle architecture. Upon installation, these enable Oracle Real User Experience Insight to automatically "see" every E-Business Suite page. Oracle Real User Experience Insight's self-discovery capabilities can monitor applications regardless of the customization level, installed components, or size. Additionally, because Oracle Real User Experience Insight uses E-Business

Suite-specific templates to selectively record the significant user events that will produce actionable insight, the reported monitoring quality is maximized.

All of the capabilities for Oracle Real User Experience Insight as documented in [Chapter 8, "User Experience Management"](#) are available as part of the Application Management Suite for Oracle E-Business Suite license. However, the restricted license for Real User Experience Insight only allows RUEI to be used for monitoring Oracle E-Business Suite applications developed using Oracle Forms or the OA Framework. Customers who want to use Real User Experience Insight to monitor other applications need to obtain a full use license of the product.

Features

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

Licensed Links for E-Business Suite

The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for Oracle E-Business Suite. The list that follows assumes that you begin from the main Grid Control Home page.

- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Oracle Applications** sub-tab:
 - The **All Oracle E-Business Suite Systems page** is a licensed feature of the Application Management Suite for Oracle E-Business Suite.
 - From the All Oracle E-Business Suite Systems page, click **Add**. The **Add All Oracle E-Business Suite Targets page and all subsequent pages** within the process are licensed features of the Applications Management Suite for 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. The **Oracle E-Business Suite System Home, Performance, Administration, Maintenance and Diagnostic** pages, and subsequent pages associated with drilling down the targets that comprise an E-Business Suite system are licensed features of the Application Management Suite for Oracle E-Business Suite.
- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Systems** sub-tab:
 - On the Systems page, click the link in the **Name** column for a system with **Type of Oracle E-Business Suite System**. The **Oracle E-Business Suite System Home, Performance, Administration, Maintenance and Diagnostic** pages, and subsequent pages associated with drilling down the targets that comprise an E-Business Suite system are licensed features of the Application Management Suite for Oracle E-Business Suite.
 - On the Systems page, click the link in the **Name** column for a system with **Type of Oracle E-Business Suite Nodes System**. The **Oracle E-Business Suite**

Nodes System Home, Charts, Administration, Components and Topology pages are licensed features of the Application Management Suite for Oracle E-Business Suite.

Service Level Management for E-Business Suite

Features associated with Enterprise Manager Grid Control Service Level Management (SLM) is 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 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.

Licensed Links

The following information describes the Enterprise Manager links that require licensing of the Application Management Suite for Oracle E-Business Suite. This information does not include feature links that may contain information derived from the creation of tests and beacons, but are considered part of Service Level Management. The list that follows assumes that you begin from the main Grid Control Console Home page.

- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Services** sub-tab:
 - On the Services page, click **Add** to add a service. The **Beacons** page of the Add Services wizard is a licensed feature of Service Level Management within the Application Management Suite for Oracle E-Business Suite.
 - On the Services page, click **Add** to add a service. Defining a service's availability based on the execution of a service test by selecting **Service Test** from the drop-down menu on the Availability page of the wizard is a licensed feature of the Service Level Management within the Application Management Suite for Oracle E-Business Suite.
 - On the Service page, select **Monitoring Configuration**. Select **Availability Definition** from the Generic Tasks section. Defining the service's availability based on the execution of a service test by selecting **Service Test** from the drop-down menu on the Availability Definition page is a licensed feature of Service Level Management within the Application Management Suite for Oracle E-Business Suite.
 - On the Service page, the **Page Performance** tab and the subsequent pages associated with Page Performance Analysis is a licensed feature of Service Level Management within the Application Management Suite for Oracle E-Business Suite.
- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Services** sub-tab:

- On the Services page, click **Add** to define a service to model and monitor a business process or application. The **Beacons page** of the Add Forms Application wizard is a licensed feature of Service Level Management within the Application Management Suite for Oracle E-Business Suite.
- On the Services page, click **Add** to define a service to model and monitor a business process or application. Defining a Forms Application's availability based on the execution of a service test by selecting **Service Test** from the drop-down menu on the Availability page of the wizard is a licensed feature of Service Level Management within the Application Management Suite for Oracle E-Business Suite.
- On the Forms Application page, select **Monitoring Configuration**. The **Service Tests and Beacons** link in the Generic Tasks section is a licensed feature of Service Level Management within the Application Management Suite for Oracle E-Business Suite.
- On the Forms Application page, select **Monitoring Configuration**. Select **Availability Definition** from the Generic Tasks section. Defining the service's availability based on the execution of a service test by selecting **Service Test** from the drop-down menu on the Availability Definition page is a licensed feature of Service Level Management within the Application Management Suite for Oracle E-Business Suite.
- On the Forms Application page, the **Page Performance tab** and the subsequent pages associated with **Page Performance Analysis** are licensed features of Application Management Suite for Oracle E-Business Suite.
- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **All Targets** sub-tab. From the All Targets page, navigate to an Agent Home page. The **Add Beacon option** from the Add drop-down menu is a licensed feature of Service Level Management within the Application Management Suite for Oracle E-Business Suite.

Command Line Interface (CLI) Verbs

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

- emcli apply_template_tests
- emcli create_service
- emcli add_target

Configuration Management for E-Business Suite

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

- Oracle E-Business Suite
- Oracle E-Business Suite System
- Oracle Concurrent Manager
- Oracle E-Business Suite Custom Objects Definition

- Oracle E-Business Suite Patch Information Configuration
- Oracle E-Business Suite Workflow
- Oracle HTTP Server
- OC4J
- Oracle Applications Server

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

Additional Licensed Configuration Management Capabilities

Application Management Suite for Oracle E-Business Suite includes a limited use license of Application Configuration Console (ACC) and Configuration Change Console (CCC). These two tools can be used against Oracle E-Business Suite application targets as specified above, and operating system targets. Licensing information for ACC and CCC is available in [Chapter 6, "Other Infrastructure Management"](#) under the "Additional Licensed Features" section of "Configuration Management Pack for Applications".

Licensed Links

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

- Grid Control Home page:
 - **All links** in the All Targets Policy Violations section
 - **Hardware and Operating System related information** in the Deployment Summary sections
 - **All links** in the Security Policy Violations section
- From the Grid Control Home page, click the **Deployments** tab. On the Deployments page, the following items are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:
 - **Hardware and Operating System related information** in the Deployment Summary sections.
 - **All links** in the Configuration section.
 - **All links** in the Client Configurations section.

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, Application Management Suite for PeopleSoft Enterprise, Applications Management Pack for Siebel, Application Management Suite for Oracle E-Business Suite, and Configuration Pack for Oracle Middleware.

- From the Grid Control Home page, select the **Compliance** tab, then the **Policies** sub-tab to display the Policy Violations page. 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 Grid Control Policies Violations page for information related to hosts are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite.
- From the Grid Control Home page, select the **Compliance** tab, then the **Security at a Glance** sub-tab. On the Grid Control Security at a Glance page, **all links related to information on the host** are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite.
- From the Grid Control Home page, click the **Targets** tab, then select the **Hosts** sub-tab. On the Grid Control Hosts page, the following items are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:
 - **Policy Violations link**
 - **Compliance Score (%)**
- From the Grid Control Hosts page, click a specific host to display the Host Home page. The following links are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:
 - **All links** in the Configuration section
 - **All links** in the Policy Violations section
 - **All links** in the Security section
 - Under Related Links, the following links are licensed:
 - * **Deployments**
 - * **Metric and Policy Settings**
- From the Host Home page, click the **Targets** tab. The following links and columns are licensed:
 - **Policy Violations and associated links**
 - **Compliance Score (%)**
- From the Host Home page, click the **Configuration** tab. All features, links, and information on the **Configuration tab** are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite.
- From the Grid Control Home page, click the **Targets** tab, then select the **Systems** sub-tab. On the Systems page, the following items are licensed features of

Configuration Management within the Application Management Suite for Oracle E-Business Suite:

- **Policy Violations link**

- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. On the Groups page, the following items are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:

- **Policy Violations link**

- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. Select a group. On the Group Home page, the following items are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:

- **All links** in the Configuration Changes section
- **All links** in the Policy Violations section
- **All links** in the Security Policy Violations section

- From the Groups Home page, click the **Administration** tab. The following links are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:

- **Hardware and Operating System related information** in the Deployment Summary sections
- **Configuration Searches feature** for host and operating systems

- From the Groups Home page, click the **Members** tab. The following links are licensed features of Configuration Management within the Application Management Suite for Oracle E-Business Suite:

- **All links and the information** in the Policy Violations column

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 Grid Control Home page.

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

Licensed Repository Views

The following repository views are licensed features of Configuration Management within the Application Management Suite for 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
- **Configuration Views**
 - mgmt\$db_tablespaces
 - mgmt\$db_datafiles
 - mgmt\$db_controlfiles
- **Oracle Home Patching**
 - MGMT\$CPF_ADVISORY_INFO
 - MGMT\$CPF_HOMES_INFO
 - MGMT\$CPF_PATCH_INFO
 - MGMT\$EM_HOMES_PLATFORM
 - MGMT\$HOMES_AFFECTED
 - MGMT\$PATCH_ADVISORIES
 - MGMT\$APPL_PATCH_AND_PATCHSET
 - MGMT\$APPLIED_PATCHES
 - MGMT\$APPLIED_PATCHSETS
- **Linux Patching**
 - MGMT\$HOSTPATCH_HOSTS
 - MGMT\$HOSTPATCH_GROUPS
 - MGMT\$HOSTPATCH_GRP_COMPL_HIST
 - MGMT\$HOSTPATCH_HOST_COMPL
- **Security Views**
 - MGMT\$ESA_ALL_PRIVS_REPORT
 - MGMT\$ESA_ANY_DICT_REPORT
 - MGMT\$ESA_ANY_PRIV_REPORT
 - MGMT\$ESA_AUDIT_SYSTEM_REPORT

- MGMT\$ESA_BECOME_USER_REPORT
- MGMT\$ESA_CATALOG_REPORT
- MGMT\$ESA_CONN_PRIV_REPORT
- MGMT\$ESA_CREATE_PRIV_REPORT
- MGMT\$ESA_DBA_GROUP_REPORT
- MGMT\$ESA_DBA_ROLE_REPORT
- MGMT\$ESA_DIRECT_PRIV_REPORT
- MGMT\$ESA_EXMPT_ACCESS_REPORT
- MGMT\$ESA_KEY_OBJECTS_REPORT
- MGMT\$ESA_OH_OWNERSHIP_REPORT
- MGMT\$ESA_OH_PERMISSION_REPORT
- MGMT\$ESA_POWER_PRIV_REPORT
- MGMT\$ESA_PUB_PRIV_REPORT
- MGMT\$ESA_SYS_PUB_PKG_REPORT
- MGMT\$ESA_TABSP_OWNERS_REPORT
- MGMT\$ESA_TRC_AUD_PERM_REPORT
- MGMT\$ESA_WITH_ADMIN_REPORT
- MGMT\$ESA_WITH_GRANT_REPORT
- **Client Configurations Views**
 - MGMT\$CSA_COLLECTIONS
 - MGMT\$CSA_FAILED
 - MGMT\$CSA_HOST_OS_COMPONENTS
 - MGMT\$CSA_HOST_SW
 - MGMT\$CSA_HOST_COOKIES
 - MGMT\$CSA_HOST_CUSTOM
 - MGMT\$CSA_HOST_RULES
 - MGMT\$CSA_HOST_CPUS
 - MGMT\$CSA_HOST_IOCARDS
 - MGMT\$CSA_HOST_NICS
 - MGMT\$CSA_HOST_OS_PROPERTIES
 - MGMT\$CSA_HOST_OS_FILESYSTEMS
 - MGMT\$ECM_CONFIG_HISTORY
 - MGMT\$ECM_CONFIG_HISTORY_KEY1
 - MGMT\$ECM_CONFIG_HISTORY_KEY2
 - MGMT\$ECM_CONFIG_HISTORY_KEY3
 - MGMT\$ECM_CONFIG_HISTORY_KEY4
 - MGMT\$ECM_CONFIG_HISTORY_KEY5

- MGMT\$ECM_CONFIG_HISTORY_KEY6
- MGMT\$HW_NIC
- MGMT\$OS_COMPONENTS
- MGMT\$OS_FS_MOUNT
- MGMT\$OS_HW_SUMMARY
- MGMT\$OS_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

Java-based Oracle E-Business Suite Licensed Components

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

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

Virtualization Management

Oracle VM is a platform that provides a fully equipped environment for effectively leveraging the benefits of virtualization technology. Enterprise Manager enables you to deploy operating systems and application software on Oracle VM virtualization environments.

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

- [Licensed Links for Monitoring and Administration](#)
- [Licensed Links for Provisioning and Patching](#)
- [Licensed Links for Configuration Management](#)
- [Licensed Reports](#)
- [Licensed Repository Views](#)
- [Licensed Command Line Interface \(CLI\) Verbs](#)

Oracle VM Management Pack

The Oracle VM Management Pack offers scalable, low-cost server virtualization that supports both Oracle and non-Oracle workloads. Consisting of open source server virtualization software and an integrated Web browser-based management console, Oracle provides an easy-to-use graphical interface for creating and managing virtual server pools, guest virtual machines and application workloads running on them.

Users can create and manage Virtual Machines (VMs) that exist on the same physical server but behave like independent physical servers. Each virtual machine created with Oracle VM has its own virtual CPUs, network interfaces, storage, and operating system. With Oracle VM, users have an easy-to-use browser-based tool for creating, cloning, sharing, configuring, booting, and migrating VMs.

Note: Oracle VM 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.

The Oracle VM Management Pack includes the features shown in [Table 11-1](#).

Table 11–1 Feature Highlights of Oracle VM Management Pack

Feature	Benefit
Oracle VM and Guest VM provisioning	Deploy Oracle VM to bare metal servers and create Guest VMs.
Guest VM patching	Provide automated host patching and integration with an Unbreakable Linux network (ULN).
Configuration management	Provide hardware and software configuration data collection, search, comparison, and analytical reporting.
Policy management	Ensure consistency of deployments and adherence to operation standards. Includes policy violation notifications.
Performance monitoring	Provide real-time and historical performance monitoring.
Advanced alert management	Provide notification methods, rules, and schedules, metric history and associated drill-downs, ability to set blackouts, associate corrective actions with an alert, user-defined metrics, metric snapshots, and monitoring templates.
Administration	Provide remote administration capabilities for hosts.

Licensed Links for Monitoring and Administration

- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Virtual Servers** sub-tab. The Virtualization Central property page of the Virtual Servers home page appears.
 - The **Software Components** property page tab is licensed as part of the Oracle VM Management Pack.
 - The **Bare-Metal Provisioning** link in the Related Links section is licensed as part of this pack.
 - The **Customize Table Columns** link in the Related Links section is licensed as part of this pack.
 - All links in the **Name** column of Type Virtual Server and Virtual Server Pool are licensed as part of this pack.
 - All links in the **Server Pool** column are licensed as part of this pack.
 - All links in the **Virtual Server** column are licensed as part of this pack.
 - All links in the **CPU Util (%)** column are licensed as part of this pack.
 - All links in the **Memory Util (%)** column that have an Oracle VM Server operating system are licensed as part of this pack.
- From the Virtualization Central property page, click the **The Software Components** property page tab. The Software Components property page appears.
 - **All links, buttons, and other features** on the Software Components property page are licensed as part of this pack.
- From the Oracle Enterprise Manager **Hosts** page:
 - When you click the link in the **Status** column for a host that is a Guest VM, Enterprise Manager displays the **Availability (Status History)** page, which is part of this licensed pack.

- When you select the value in the **CPU Util %** column for a host that is a Guest VM, the metric history page for **CPU Utilization (%)** appears, which is part of this licensed pack.
- When you select the value in the **Memory Util %** column for a host that is a Guest VM, the metric history page for **Memory Utilization (%)** appears, which is part of the licensed pack.
- When you select the value in the **Total IO/sec** column for a host that is a Guest VM, the metric history page for **Total Disk I/O Per Second** appears, which is part of the licensed pack.
- From the Oracle Enterprise Manager **Host Home** page for a host that is a Guest VM:
 - When you click the link in the **Status** field or the **Availability** field, the **Availability (Status History)** page appears, which is part of this licensed pack.
 - When you click the **Blackout** button, the **Create Blackout** wizard initiates, which is part of this licensed pack.
 - When you click the **Metric Name** in the **Alerts Table**, the metric history page that is displayed is part of the licensed pack.
- From the **Related Links** section of the Oracle Enterprise Manager **Host Home** page, the following links are licensed under the Oracle VM Management Pack:
 - **Alert history**
 - **Blackouts**
 - **Storage details**
 - **User-defined metrics**
 - From the **All Metrics** link and the resultant **All Metrics** page, drilling down to **Metric History** pages is licensed.
 - From the **Metrics and Policy Settings** link, selecting **Metric Snapshots** from the **Metric Thresholds Links** section is a licensed feature.
- All links, charts, and information on the **Performance** sub-tab of the **Host Home** page for a host that is a Guest VM are licensed under the Oracle Management Pack.
- All links and information on the **Administration** sub-tab of the **Host Home** page for a host that is a Guest VM are licensed under the Oracle VM Management Pack.
- Select the **Preferences** link on the Enterprise Manager Grid Control Hosts page. From the **General Preferences** list, selecting either **Notification Rules** or **Notifications Public Rules**, and then **Create** to create a notification rule, or selecting the **Notification Schedules** feature, are licensed activities of the Oracle VM Management Pack.
- Creating a notification rule that applies to a host that is a Guest VM is a licensable feature of the Oracle VM Management Pack.
- Select the **Setup** link on the Enterprise Manager Grid Control Hosts page. The following links on the **Overview of Setup** page are licensed as part of the Oracle VM Management Pack:
 - **Monitoring templates**
 - **Corrective action library**
 - **Notification methods**

- **Blackouts**
- Select the **Alerts** tab on the Enterprise Manager Grid Control Hosts page. Clicking on the **Message link** for any Oracle VM server or Guest VM related alert is a licensed feature of the pack.
- Select the **Groups** sub-tab on the Enterprise Manager Grid Control Host page:
 - On the **Groups** page, click an **Alert** in the Alert column. The **Message link** on the **Status Report** page is a licensed feature of the pack.
 - Navigate to the **Group Home** page. The following items are licensed as part of the Oracle VM Management Pack:
 - * **Message links** for Oracle VM server and Guest VM related alerts accessible from links in the Alerts section
 - * **Alert History** button in the Alerts section
 - * **Status History** button in the Status section
 - Navigate to the **Group Home** page. All information on the **Groups Charts** page is licensed if the Oracle VM server or Guest VMs are part of the group membership.
 - Navigate to the **Group Home** page. On the Groups Administration page, **all links** in the **Blackouts** section are licensed if the Oracle VM server or Guest VM are members of the group.
 - Navigate to the **Group Home** page. On the **Groups Members** page, the following items are licensed as part of the Oracle VM Management Pack:
 - * **Linux host-related links** in the **Status** column
 - * **Message links** for Oracle VM and Guest VM related alerts accessible from links in the **Alerts** column
 - * Links in the performance metric columns for Oracle VM and Guest VMs; for example, CPU Usage and Memory Usage
- Select the **Systems** sub-tab on the Enterprise Manager Grid Control Host page:
 - On the **Systems** page, click an **Alert** in the Alert column. The **Message link** on the **Status Report** page is a licensed feature of the pack.
 - Navigate to the **System Home** page. Whenever an Oracle VM or Guest VM target is included in the system, the following items are licensed as part of the Oracle VM Management Pack on the **System Home** page:
 - * **Message links** for Oracle VM and Guest VM related alerts accessible from links in the Alerts section
 - * **Alert History** button in the Alerts section
 - * **Status History** button in the Status section
 - Navigate to the **System Home** page. All information on the **Systems Charts** page is licensed if an Oracle VM or Guest VM is part of the system.
 - Navigate to the **System Home** page. On the **Systems Administration** page, all links in the **Blackouts** section are licensed if an Oracle VM or Guest VM is part of the system.
 - Navigate to the **System Home** page. On the **Systems Components** page, the following items are licensed:
 - * **Host links** in the **Status** column

- * **Message links** for Oracle VM and Guest VM related alerts accessible from links in the **Alerts** column
- * **Links** in the performance metric columns for host metrics
- Navigate to the **System Home** page. On the **Systems Topology** page, the following items are licensed:
 - * **Status** link in the Selection Details column for Oracle VM and Guest VM components
 - * **Message links** accessible from the alerts links in the Selection Details and Summary sections for Oracle VM or Guest VM alerts
- Navigate to the **System Home** page. Click the **Launch Dashboard** button. On the Dashboard, all **Message links** for Oracle VM and Guest VM related alerts in the **Message** column are licensed as are status links in the status column.
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page:
 - On the **Services** page, the following items are licensed as part of the Oracle VM Management Pack:
 - * **Status link** if service availability is system-based and if at least one host component that is a guest VM is a key component
 - * **Message links** accessible from links in the **Performance Alerts** section if host metrics are used as performance metrics and one of the hosts is a Guest VM
 - * **Message links** accessible from links in the **Usage Alerts** column if host metrics are used as usage metrics and one of the hosts is a Guest VM
 - * **Message links** for Oracle VM and Guest VM related alerts accessible from links in the **Alerts** column of the **Key Components** sub-column
 - On the **Services** page, select a **Service** to add from the **Add** drop-down list and click **Go**. On the **Services Creation** wizard, the use of host metrics for Oracle VM and Guest VMs as performance and usage metrics is a licensed feature of the pack.
 - Click a generic service link on the **Services** page to display the **Service Home** page. The following items are licensed as part of the Oracle VM Management Pack on the **Service Home** page:
 - * **Blackout** button in the **General** section if the availability of the service is system-based and at least one host that is a Guest VM is a key component
 - * **Availability** link in the **General** section if the availability of the service is system-based and at least one host that is a Guest VM is a key component
 - * **Actual Service Level** link in the **General** section if the availability of the service is system-based and at least one host that is a Guest VM is a key component
 - * **Message links** in the **Message** column for Oracle VM and Guest VM related alerts accessible from **Alert links** in the **Key Component Summary** section
 - * **Message links** in the **Message** column of the **Possible Causes of Service Failure** section if an Oracle VM or Guest VM component is one of the possible causes of failure
 - * **Message links** in the **Message** columns accessible from the **Root Cause Analysis Details** link in the **Possible Causes of Service Failure** section if

an Oracle VM or Guest VM component is one of the possible causes of failure

- * **Message** links for Oracle VM and Guest VM related alerts in the **Message** column of the **Alerts** section
- Click a generic service link on the **Services** page to display the **Service Home** page. Click the **System** link. The following items are licensed as part of the Oracle VM Management Pack on the **Service System** page:
 - * **Status** link for Oracle VM or Guest VM key components
 - * **Message links** for Oracle VM and Guest VM related alerts accessible from links in the **Alerts** column
- Click a generic service link on the **Services** page to display the **Service Home** page. Click the **Topology** link. The following items are licensed as part of the pack on the **Service Topology** page:
 - * **Status** link in the **Selection Details** section if service availability is system-based and if at least one host is a key component
 - * **Message links** for host-related alerts accessible from the **Alerts** link in the **Selection Details** section
 - * **Possible Root Cause** link in the **Selection Details** section if the root cause is a host
- Click a generic service link on the **Services** page to display the **Service Home** page. Click the **Monitoring Configuration** link. The following items are licensed as part of the pack on the **Service Monitoring Configuration** page:
 - * **Host** links for host targets in the **Component Test** column accessible from the **Root Cause Analysis Configuration** link
 - * **Adding Performance Metrics** based on host metrics and Oracle VM or Guest VM targets accessible from the **Performance Metrics** link
 - * **Adding Usage Metrics** based on host metrics and Oracle VM or Guest VM targets accessible from the **Usage Metrics** link
- Click a generic **service link** on the **Services** page to display the **Service Home** page. The following items are licensed as part of the pack in the **Related Links** section:
 - * **Blackouts** and all subsequent pages if the availability of the service is system-based and at least one host that is a Guest VM is a key component
 - * **Alert History** link and subsequent pages if any host metrics for Oracle VM and Guest VMs are used as performance or usage metrics for the service
- Click an aggregate service link on the **Services** page to display the **Service Home** page. The following items are licensed as part of the Oracle VM Management Pack on the **Service Home** page:
 - * **Blackout** button in the **General** section if the availability of one of the sub-services is system-based and at least one host that is a Guest VM is a key component
 - * **Availability** link in the **General** section if the availability of one of the sub-services is system-based and at least one host that is a Guest VM is a key component

- * **Actual Service Level** link in the **General** section if the availability of one of the sub-services is system-based and at least one host that is Guest VM is a key component
- * **Message links** in the **Message** column for Oracle VM and Guest VM related alerts accessible from **Alert links** in the **Key Component Summary** section
- * **Message links** in the **Message** column of the **Possible Causes of Service Failure** section if an Oracle VM or Guest VM component is one of the possible causes of failure
- * **Message links** in the **Message** columns accessible from the **Root Cause Analysis Details** link in the **Possible Causes of Service Failure** section if an Oracle VM or Guest component is one of the possible causes of failure
- * **Message links** for Oracle VM and Guest VM related alerts in the **Message** column of the **Alerts** section
- Click an aggregate service link on the **Services** page to display the **Service Home** page. Click the **Topology** link. The following items are licensed as part of the pack on the **Service Topology** page:
 - * **Status** link in the **Selection Details** section if the availability of one of the sub-services is system-based and if at least one host that is a Guest VM or an Oracle VM server is a key component
 - * **Message links** for Oracle VM and Guest VM related alerts accessible from the **Alerts** link in the **Selection Details** section
 - * **Possible Root Cause** link in the **Selection Details** section if the root cause is an Oracle VM or Guest VM
- Click an aggregate service link on the **Services** page to display the **Service Home** page. The following items are licensed as part of the pack in the **Related Links** section:
 - * **Blackouts** and all subsequent pages if the availability of one of the sub-services is system-based and at least one host that is a Guest VM or an Oracle VM server is a key component
 - * **Host links** for Oracle VM and Guest VM targets in the **Component Test** column accessible from the **Root Cause Analysis Configuration** link
- Select the **Web Applications** sub-tab on the Enterprise Manager Grid Control Host page.
 - On the **Web Applications** page, the following items are licensed as part of the Oracle VM Management Pack:
 - * **Status** link if **Web Application** availability is system-based and if at least one host that is a Guest VM or an Oracle VM server is a key component
 - * **Message links** for Oracle VM and Guest VM related alerts accessible from links in the **Alerts** column
 - Click a Web application. The following items are licensed as part of the Oracle VM Management Pack on the **Web Application Home** page:
 - * **Blackout** button in the **General** section if the availability of the service is system-based and at least one host that is a Guest VM is a key component
 - * **Availability** link in the **General** section if the availability of the service is system-based and at least one host that is a Guest VM is a key component

- * **Actual Service Level** link in the **General** section if the availability of the service is system-based and at least one host that is a Guest VM is a key component
- * **Message links** in the **Message** column for Oracle VM and Guest VM related alerts accessible from **Alert links** in the **Key Component Summary** section
- * **Message links** in the **Message** column of the **Possible Causes of Service Failure** section if an Oracle VM or Guest VM component is one of the possible causes of failure
- * **Message links** in the **Message** columns accessible from the **Root Cause Analysis Details** link in the **Possible Causes of Service Failure** section if an Oracle VM or Guest VM component is one of the possible causes of failure
- * **Message links** for Oracle VM and Guest VM related alerts in the **Message** column of the **Alerts** section for Oracle VM and Guest VMs alerts
- Click a Web application. Click the **System** link. The following items are licensed as part of the Oracle VM Management Pack on the **Web Application System** page:
 - * **Status link** if service availability is system-based and if at least one host that is a Guest VM is a key component
 - * **Message links** for Oracle VM and Guest VM related alerts accessible from links in the Alerts column
- Click a Web application. Click the **Topology** link. The following items are licensed as part of the Oracle VM Management Pack on the **Web Application Topology** page:
 - * **Status link** in the **Selection Details** section if service availability is system-based and if at least one host that is a Guest VM is a key component
 - * **Message links** for Oracle VM and Guest VM related alerts accessible from the **Alerts** link in the **Selection Details** section
 - * **Possible Root Cause** link in the **Selection Details** section if the root cause is an Oracle VM or Guest VM
- Click a Web application. Click the **Monitoring Configuration** link. The following items are licensed as part of the pack on the **Web Application Monitoring Configuration** page:
 - * **Host links** in the **Component Test** column accessible from the **Root Cause Analysis Configuration** link
 - * **Adding Performance Metrics** based on host metrics and Oracle VM and Guest VMs accessible from the **Performance Metrics** link
 - * **Adding Usage Metrics** based on host metrics and Oracle VM and Guest VMs accessible from the **Usage Metrics** link
- Click a Web application. The following item is licensed as part of the pack in the **Related Links** section:
 - * Blackouts and all subsequent pages if the availability of the Web application is system-based and at least one host that is a Guest VM is a key component

- From the **Grid Control Home** page, select **Targets**, then **Databases**, then select a database link to drill down to the **Database Home** page. On the **Database Home** page, any **Message** link for Oracle VM and Guest VM related alerts in the **Related Alerts** section is a licensed part of the Oracle VM Management Pack.
- From the **Grid Control Home** page, select **Targets**, then **Middleware**. Click an Application Server link. On the **Oracle Application Server** home page, all **Message links** in the **Host Alerts** section are licensed if it is an Oracle VM or Guest VM.
- From the home page for any target type, all **Message** links in the **Host Alerts** section are licensed if it is an Oracle VM or Guest VM.

Licensed Links for Provisioning and Patching

The following provisioning and patching items are licensed as part of the Oracle VM Management Pack.

- From the Grid Control Home page, click the **Setup** link, then click the **Patching Setup** link, then click the **Linux Patching Setup** link.
- From the Grid Control Home page, click the **Deployments** tab, then click the **Provisioning** sub-tab.
- From the Grid Control Home page, click the **Deployments** tab. The following Linux patching-related items are licensed as part of the pack:
 - **Linux Patching** link
 - Linux Patching deployment procedure under **Patching through Deployment Procedures** section
 - Linux Patching deployment procedure under **Deployment Procedure Manager** section

Licensed Links for Configuration Management

The following configuration management items are licensed as part of the Oracle VM Management Pack.

- Grid Control Home page:
 - **All links** in the **All Targets Policy Violations** section
 - Hardware and operating system related information in the **Deployments Summary** section.
 - **Security Policy Violations** section
- From the Grid Control Home page, click the **Deployments** tab. The following items are licensed as part of the pack:
 - **Hardware and Operating System** related information in the **Deployments Summary** section
 - The following links in the **Configuration** section:
 - * **Search**; also the **Search Host Operating System Configuration Data** section that appears after clicking **Search**
 - * **Compare Configuration**
 - * **Compare to Multiple Configurations**

- * **View Saved Configuration**
- * **Import Configuration**
- * **Host Configuration Collection Problems**
- * **Refresh Host Configuration**
- * **Configuration History**
- From the Grid Control Home page, click the **Targets** tab, then select the **Hosts** sub-tab. On the Grid Control Hosts page, the following items are licensed as part of the pack for Oracle VM and Guest VMs:
 - **Policy Violations links**
 - **Compliance Score (%)**
- From the Grid Control Home page, click the **Targets** tab, then select the **Systems** sub-tab. On the **Systems** page, the following item is licensed as part of the pack:
 - **Policy Violations links**
- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. On the **Groups** page, the following item is licensed as part of the pack:
 - **Policy Violations links**
- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. Select a group. On the **Groups** page, the following items are licensed as part of the pack:
 - **All links** in the **Configuration Changes** section
 - **All links** in the **Policy Violations** section
 - **All links** in the **Security Policy Violations** section
- From the Groups Home page, click the **Administration** tab. The following items are licensed as part of the pack:
 - Hardware and Operating System related information in the **Deployments Summary** section
 - **Configuration Searches** feature
- From the Groups Home page, click the **Members** tab. The following item is licensed as part of the pack:
 - All links and the information in the **Policy Violations** column

Licensed Reports

The following reports are part of the Oracle VM Management Pack. To display the Report Definitions page, click the **Reports** tab on the Grid Control Home page. The following reports are licensed as part of this pack:

- **All reports** under the **Monitoring** category and **Alerts and Policy Violations** sub-category
- **All reports** under the **Monitoring** category and **Availability History** sub-category
- **All reports** under the **Deployment and Configuration** category and **Hardware** sub-category
- **All reports** under the **Deployment and Configuration** category and **Operating System** sub-category

- All reports under the **Deployment and Configuration** category and **Linux Operating System** sub-category
- All reports under the **Deployment and Configuration** category and **Oracle VM/Virtual Server** sub-category

Licensed Repository Views

The following repository views are part of the Oracle VM Management Pack:

- **Oracle VM Configuration Views**
 - MGMT\$OVM_VS_VSP_ASSOC
 - MGMT\$OVM_GVM_SUMMARY
 - MGMT\$OVM_HW_NIC
 - MGMT\$OVM_OS_HW_SUMMARY
- **Monitoring Views**
 - MGMT\$OVM_VS_PERF_SUMMARY
 - MGMT\$BLACKOUT_HISTORY
 - MGMT\$BLACKOUTS
 - MGMT\$ALERT_ANNOTATIONS
 - MGMT\$ALERT_NOTIF_LOG
 - MGMT\$AVAILABILITY_HISTORY
 - MGMT\$ALERT_HISTORY
 - MGMT\$METRIC_DETAILS
 - MGMT\$METRIC_HOURLY
 - MGMT\$METRIC_DAILY
- **Template Views**
 - MGMT\$TEMPLATES
 - MGMT\$TEMPLATE_POLICY_SETTINGS
 - MGMT\$TEMPLATE_METRIC_COLLECTION
 - MGMT\$TEMPLATE_METRIC_SETTINGS
- **Policy Definition Views**
 - mgmt\$policies
 - mgmt\$policy_parameters
 - mgmt\$policy_violation_ctxt
 - mgmt\$policy_viol_annotatons
 - 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
- **Linux Patching**
 - MGMT\$HOSTPATCH_HOSTS
 - MGMT\$HOSTPATCH_GROUPS
 - MGMT\$HOSTPATCH_GRP_COMPL_HIST
 - MGMT\$HOSTPATCH_HOST_COMPL
- **Security Views**
 - MGMT\$ESA_ALL_PRIVS_REPORT
 - MGMT\$ESA_ANY_DICT_REPORT
 - MGMT\$ESA_ANY_PRIV_REPORT
 - MGMT\$ESA_AUDIT_SYSTEM_REPORT
 - MGMT\$ESA_BECOME_USER_REPORT
 - MGMT\$ESA_CATALOG_REPORT
 - MGMT\$ESA_CONN_PRIV_REPORT
 - MGMT\$ESA_CREATE_PRIV_REPORT
 - MGMT\$ESA_DIRECT_PRIV_REPORT
 - MGMT\$ESA_EXMPT_ACCESS_REPORT
 - MGMT\$ESA_POWER_PRIV_REPORT
 - MGMT\$ESA_PUB_PRIV_REPORT
 - MGMT\$ESA_SYS_PUB_PKG_REPORT
- **Host Configuration Views**
 - MGMT\$CSA_HOST_RULES
 - MGMT\$CSA_HOST_CPUS
 - MGMT\$CSA_HOST_IOCARDS
 - MGMT\$CSA_HOST_NICS
 - MGMT\$CSA_HOST_OS_PROPERTIES
 - MGMT\$CSA_HOST_OS_FILESYSTEMS
 - MGMT\$ECM_CONFIG_HISTORY
 - MGMT\$ECM_CONFIG_HISTORY_KEY1
 - MGMT\$ECM_CONFIG_HISTORY_KEY2
 - MGMT\$ECM_CONFIG_HISTORY_KEY3
 - MGMT\$ECM_CONFIG_HISTORY_KEY4
 - MGMT\$ECM_CONFIG_HISTORY_KEY5

- MGMT\$ECM_CONFIG_HISTORY_KEY6
- MGMT\$HW_NIC
- MGMT\$OS_COMPONENTS
- MGMT\$OS_FS_MOUNT
- MGMT\$OS_HW_SUMMARY
- MGMT\$OS_PATCHES
- MGMT\$OS_SUMMARY

Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of the Oracle VM Management Pack:

- delete_blackout
- delete_guest_vm
- get_blackout_details
- get_blackout_reasons
- get_blackout_targets
- get_blackouts
- get_guest_vm_status
- get_virtual_server_status
- list_guest_vm
- list_virtual_server
- list_virtual_server_pool
- pause_guest_vm
- reboot_guest_vm
- reboot_virtual_server
- resume_guest_vm
- start_guest_vm
- start_vt_daemon
- status_vt_daemon
- stop_guest_vm
- stop_virtual_server
- stop_vt_daemon
- suspend_guest_vm
- unpause_guest_vm
- stop_blackout

Linux Management

Oracle offers the Linux Management Pack as part of the Unbreakable Linux Support program. The following sections in this chapter describe the licensed features and links for this pack.

- [Licensed Links for Monitoring and Administration](#)
- [Licensed Links for Provisioning and Patching](#)
- [Licensed Links for Configuration Management](#)
- [Licensed Reports](#)
- [Licensed Repository Views](#)
- [Licensed Command Line Interface \(CLI\) Verbs](#)

Linux Management Pack

This pack provides a complete solution for monitoring and managing Linux hosts. The pack is not separately licensable and is only available to Oracle Unbreakable Linux support subscribers.

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.

The Linux Management Pack for Identity Management includes the features shown in [Table 12–1](#).

Table 12–1 *Feature Highlights of Linux Management Pack*

Feature	Benefit
Linux provisioning	Deploy Linux Operating System to bare metal servers.
Linux patching	Provide automated Linux host patching and integration with an Unbreakable Linux network (ULN).
Configuration management	Provide hardware and software configuration data collection, search, comparison, and analytical reporting.
Policy management	Ensure consistency of deployments and adherence to operation standards. Includes policy violation notifications.
Performance monitoring	Provide real-time and historical performance monitoring.

Table 12–1 (Continued) Feature Highlights of Linux Management Pack

Feature	Benefit
Advanced alert management	Provide notification methods, rules, and schedules, metric history and associated drill-downs, ability to set blackouts, associate corrective actions with an alert, user-defined metrics, metric snapshots, and monitoring templates.
Administration	Provide remote administration capabilities for Linux hosts.

Licensed Links for Monitoring and Administration

- From the Oracle Enterprise Manager **Hosts** page:
 - When you click the link in the **Status** column for a Linux host, Enterprise Manager displays the **Availability (Status History)** page, which is part of this licensed pack.
 - When you select the value in the **CPU Util %** column for a Linux host, the metric history page for **CPU Utilization (%)** appears, which is part of this licensed pack.
 - When you select the value in the **Memory Util %** column for a Linux host, the metric history page for **Memory Utilization (%)** appears, which is part of the licensed pack.
 - When you select the value in the **Total IO/sec** column for a Linux host, the metric history page for **Total Disk I/O Per Second** appears, which is part of the licensed pack.
- From the Oracle Enterprise Manager **Host Home** page for a Linux host:
 - When you click the link in the **Status** field or the **Availability** field, the **Availability (Status History)** page appears, which is part of this licensed pack.
 - When you click the **Blackout** button, the **Create Blackout** wizard initiates, which is part of this licensed pack.
 - When you click the **Metric Name** in the **Alerts Table**, the metric history page that is displayed is part of the licensed pack.
- From the **Related Links** section of the Oracle Enterprise Manager **Host Home** page for a Linux host, the following links are licensed under the Linux Management Pack:
 - **Alert history**
 - **Blackouts**
 - **Storage details**
 - **User-defined metrics**
 - From the **All Metrics** link and the resultant **All Metrics** page, drilling down to **Metric History** pages is licensed.
 - From the **Metrics and Policy Settings** link, selecting **Metric Snapshots** from the **Metric Thresholds Links** section is a licensed feature.
- All links, charts, and information on the **Performance** sub-tab of the **Host Home** page for a Linux host are licensed under the Linux Management Pack.
- All links and information on the **Administration** sub-tab of the **Host Home** page for a Linux host are licensed under the Linux Management Pack.

- Select the **Preferences** link on the Enterprise Manager Grid Control Hosts page. From the **General Preferences** list, selecting either **Notification Rules** or **Notifications Public Rules**, and then **Create** to create a notification rule, or selecting the **Notification Schedules** feature, are licensed activities of the Linux Management Pack.
- Creating a notification rule that applies to a Linux host is a licensable feature of the Linux Management Pack.
- Select the **Setup** link on the Enterprise Manager Grid Control Hosts page. The following links on the **Overview of Setup** page are licensed as part of the Linux Management Pack:
 - **Monitoring templates**
 - **Corrective action library**
 - **Notification methods**
 - **Blackouts**
- Select the **Alerts** tab on the Enterprise Manager Grid Control Hosts page. Clicking on the **Message** link for any Linux host-related alert is a licensed feature of the pack.
- Select the **Groups** sub-tab on the Enterprise Manager Grid Control Host page:
 - On the **Groups** page, click an **Alert** in the Alert column. The **Message** link on the **Status Report** page is a licensed feature of the pack.
 - Navigate to the **Group Home** page. The following items are licensed as part of the Linux Management pack:
 - * **Message links** for Linux host-related alerts accessible from links in the Alerts section
 - * **Alert History** button in the Alerts section
 - * **Status History** button in the Status section
 - Navigate to the **Group Home** page. All information on the **Groups Charts** page is licensed if the Linux host is part of the group membership.
 - Navigate to the **Group Home** page. On the Groups Administration page, **all links** in the **Blackouts** section are licensed if the Linux host is a member of the group.
 - Navigate to the **Group Home** page. On the **Groups Members** page, the following items are licensed as part of the Linux Management Pack:
 - * **Linux host-related links** in the **Status** column
 - * **Message links** for Linux host-related alerts accessible from links in the Alerts column
 - * Links in the performance metric columns for Linux hosts; for example, CPU Usage and Memory Usage
- Select the **Systems** sub-tab on the Enterprise Manager Grid Control Host page:
 - On the **Systems** page, click an **Alert** in the Alert column. The **Message** link on the **Status Report** page is a licensed feature of the pack.
 - Navigate to the **System Home** page. Whenever a Linux host target is included in the system, the following items are licensed as part of the Linux Management Pack on the **System Home** page:

- * **Message links** for Linux host-related alerts accessible from links in the Alerts section
- * **Alert History** button in the Alerts section
- * **Status History** button in the Status section
- Navigate to the **System Home** page. All information on the **Systems Charts** page is licensed if the Linux host is part of the system.
- Navigate to the **System Home** page. On the **Systems Administration** page, all links in the **Blackouts** section are licensed if the Linux host is part of the system.
- Navigate to the **System Home** page. On the **Systems Components** page, the following items are licensed:
 - * **Host links** in the **Status** column
 - * **Message links** for Linux host-related alerts accessible from links in the Alerts column
 - * **Links** in the performance metric columns for host metrics
- Navigate to the **System Home** page. On the **Systems Topology** page, the following items are licensed:
 - * **Status** link in the Selection Details column for Linux host components
 - * **Message links** accessible from the alerts links in the Selection Details and Summary sections for Linux host alerts
- Navigate to the **System Home** page. Click the **Launch Dashboard** button. On the Dashboard, all **Message links** for Linux host-related alerts in the **Message** column are licensed as are status links in the status column.
- Select the **Services** sub-tab on the Enterprise Manager Grid Control Host page:
 - On the **Services** page, the following items are licensed as part of the Linux Management Pack:
 - * **Status link** if service availability is system-based and if at least one Linux host component is a key component
 - * **Message links** accessible from links in the **Performance Alerts** section if host metrics are used as performance metrics and one of the hosts is a Linux host
 - * **Message links** accessible from links in the **Usage Alerts** column if host metrics are used as usage metrics and one of the hosts is a Linux host
 - * **Message links** for Linux host-related alerts accessible from links in the Alerts column of the **Key Components** sub-column
 - On the **Services** page, select a **Service** to add from the **Add** drop-down list and click **Go**. On the **Services Creation** wizard, the use of host metrics for Linux hosts as performance and usage metrics is a licensed feature of the pack.
 - Click a generic service link on the **Services** page to display the **Service Home** page. The following items are licensed as part of the Linux Management Pack on the **Service Home** page:
 - * **Blackout** button in the **General** section if the availability of the service is system-based and at least one Linux host is a key component

- * **Availability** link in the **General** section if the availability of the service is system-based and at least one Linux host is a key component
- * **Actual Service Level** link in the **General** section if the availability of the service is system-based and at least one Linux host is a key component
- * **Message links** in the **Message** column for Linux host-related alerts accessible from **Alert links** in the **Key Component Summary** section
- * **Message links** in the **Message** column of the **Possible Causes of Service Failure** section if a Linux host component is one of the possible causes of failure
- * **Message links** in the **Message** columns accessible from the **Root Cause Analysis Details** link in the **Possible Causes of Service Failure** section if a Linux host component is one of the possible causes of failure
- * **Message links** for Linux host-related alerts in the **Message** column of the **Alerts** section
- Click a generic service link on the **Services** page to display the **Service Home** page. Click the **System** link. The following items are licensed as part of the Linux Management Pack on the **Service System** page:
 - * **Status** link for Linux host key components
 - * **Message links** for Linux host-related alerts accessible from links in the **Alerts** column
- Click a generic service link on the **Services** page to display the **Service Home** page. Click the **Topology** link. The following items are licensed as part of the pack on the **Service Topology** page:
 - * **Status** link in the **Selection Details** section if service availability is system-based and if at least one host is a key component
 - * **Message links** for host-related alerts accessible from the **Alerts** link in the **Selection Details** section
 - * **Possible Root Cause** link in the **Selection Details** section if the root cause is a host
- Click a generic service link on the **Services** page to display the **Service Home** page. Click the **Monitoring Configuration** link. The following items are licensed as part of the pack on the **Service Monitoring Configuration** page:
 - * **Host links** for host targets in the **Component Test** column accessible from the **Root Cause Analysis Configuration** link
 - * **Adding Performance Metrics** based on host metrics and Linux host targets accessible from the **Performance Metrics** link
 - * **Adding Usage Metrics** based on host metrics and Linux host targets accessible from the **Usage Metrics** link
- Click a generic **service link** on the **Services** page to display the **Service Home** page. The following items are licensed as part of the pack in the **Related Links** section:
 - * **Blackouts** and all subsequent pages if the availability of the service is system-based and at least one Linux host is a key component
 - * **Alert History** link and subsequent pages if any host metrics for Linux hosts are used as performance or usage metrics for the service

- Click an aggregate service link on the **Services** page to display the **Service Home** page. The following items are licensed as part of the Linux Management Pack on the **Service Home** page:
 - * **Blackout** button in the **General** section if the availability of one of the sub-services is system-based and at least one Linux host is a key component
 - * **Availability** link in the **General** section if the availability of one of the sub-services is system-based and at least one Linux host is a key component
 - * **Actual Service Level** link in the **General** section if the availability of one of the sub-services is system-based and at least one Linux host is a key component
 - * **Message links** in the **Message** column for Linux host-related alerts accessible from **Alert links** in the **Key Component Summary** section
 - * **Message links** in the **Message** column of the **Possible Causes of Service Failure** section if a Linux host component is one of the possible causes of failure
 - * **Message links** in the **Message** columns accessible from the **Root Cause Analysis Details** link in the **Possible Causes of Service Failure** section if a Linux host component is one of the possible causes of failure
 - * **Message links** for Linux host-related alerts in the **Message** column of the **Alerts** section
- Click an aggregate service link on the **Services** page to display the **Service Home** page. Click the **Topology** link. The following items are licensed as part of the pack on the **Service Topology** page:
 - * **Status** link in the **Selection Details** section if the availability of one of the sub-services is system-based and if at least one Linux host is a key component
 - * **Message links** for Linux host-related alerts accessible from the **Alerts** link in the **Selection Details** section
 - * **Possible Root Cause** link in the **Selection Details** section if the root cause is a Linux host
- Click an aggregate service link on the **Services** page to display the **Service Home** page. The following items are licensed as part of the pack in the **Related Links** section:
 - * **Blackouts** and all subsequent pages if the availability of one of the sub-services is system-based and at least one Linux host is a key component
 - * **Host links** for Linux host targets in the **Component Test** column accessible from the **Root Cause Analysis Configuration** link
- Select the **Web Applications** sub-tab on the Enterprise Manager Grid Control Host page.
 - On the **Web Applications** page, the following items are licensed as part of the Linux Management Pack:
 - * **Status** link if **Web Application** availability is system-based and if at least one Linux host component is a key component

- * **Message links** for Linux host-related alerts accessible from links in the **Alerts** column
- Click a Web application. The following items are licensed as part of the Linux Management Pack on the **Web Application Home** page:
 - * **Blackout** button in the **General** section if the availability of the service is system-based and at least one Linux host is a key component
 - * **Availability** link in the **General** section if the availability of the service is system-based and at least one Linux host is a key component
 - * **Actual Service Level** link in the **General** section if the availability of the service is system-based and at least one Linux host is a key component
 - * **Message links** in the **Message** column for Linux host-related alerts accessible from **Alert links** in the **Key Component Summary** section
 - * **Message links** in the **Message** column of the **Possible Causes of Service Failure** section if a Linux host component is one of the possible causes of failure
 - * **Message links** in the **Message** columns accessible from the **Root Cause Analysis Details** link in the **Possible Causes of Service Failure** section if a Linux host component is one of the possible causes of failure
 - * **Message links** for Linux host-related alerts in the **Message** column of the **Alerts** section for Linux host alerts
- Click a Web application. Click the **System** link. The following items are licensed as part of the Linux Management Pack on the **Web Application System** page:
 - * **Status link** if service availability is system-based and if at least one Linux host is a key component
 - * **Message links** for Linux host-related alerts accessible from links in the **Alerts** column
- Click a Web application. Click the **Topology** link. The following items are licensed as part of the Linux Management Pack on the **Web Application Topology** page:
 - * **Status link** in the **Selection Details** section if service availability is system-based and if at least one Linux host is a key component
 - * **Message links** for Linux host-related alerts accessible from the **Alerts** link in the **Selection Details** section
 - * **Possible Root Cause** link in the **Selection Details** section if the root cause is a Linux host
- Click a Web application. Click the **Monitoring Configuration** link. The following items are licensed as part of the pack on the **Web Application Monitoring Configuration** page:
 - * **Host links** in the **Component Test** column accessible from the **Root Cause Analysis Configuration** link
 - * **Adding Performance Metrics** based on host metrics and Linux hosts accessible from the **Performance Metrics** link
 - * **Adding Usage Metrics** based on host metrics and Linux hosts accessible from the **Usage Metrics** link

- Click a Web application. The following item is licensed as part of the pack in the **Related Links** section:
 - * Blackouts and all subsequent pages if the availability of the Web application is system-based and at least one Linux host is a key component
- From the **Grid Control Home** page, select **Targets**, then **Databases**, then select a database link to drill down to the **Database Home** page. On the **Database Home** page, any **Message** link for Linux host-related alerts in the **Related Alerts** section is a licensed part of the Linux Management Pack.
- From the **Grid Control Home** page, select **Targets**, then **Middleware**. Click an Application Server link. On the **Oracle Application Server** home page, all **Message links** in the **Host Alerts** section are licensed if it is a Linux host.
- From the home page for any target type, all **Message** links in the **Host Alerts** section are licensed if it is a Linux host.

Licensed Links for Provisioning and Patching

The following provisioning and patching items are licensed as part of the Linux Management Pack.

- From the Grid Control Home page, click the **Setup** link, then click the **Patching Setup** link, then click the **Linux Patching Setup** link.
- From the Grid Control Home page, click the **Deployments** tab, then click the **Provisioning** sub-tab.
- From the Grid Control Home page, click the **Deployments** tab. The following Linux patching-related items are licensed as part of the pack:
 - **Linux Patching** link
 - Linux Patching deployment procedure under **Patching through Deployment Procedures** section
 - Linux Patching deployment procedure under **Deployment Procedure Manager** section

Licensed Links for Configuration Management

The following configuration management items are licensed as part of the Linux Management Pack.

- Grid Control Home page:
 - **All links** in the **All Targets Policy Violations** section
 - Hardware and operating system related information in the **Deployments Summary** section.
 - **Security Policy Violations** section
- From the Grid Control Home page, click the **Deployments** tab. The following items are licensed as part of the pack:
 - **Hardware and Operating System** related information in the **Deployments Summary** section
 - The following links in the **Configuration** section:

- * **Search**; also the **Search Host Operating System Configuration Data** section that appears after clicking **Search**
- * **Compare Configuration**
- * **Compare to Multiple Configurations**
- * **View Saved Configuration**
- * **Import Configuration**
- * **Host Configuration Collection Problems**
- * **Refresh Host Configuration**
- * **Configuration History**
- From the Grid Control Home page, click the **Targets** tab, then select the **Hosts** sub-tab. On the Grid Control Hosts page, the following items are licensed as part of the pack:
 - **Policy Violations links**
 - **Compliance Score (%)**
- From the Grid Control Home page, click the **Targets** tab, then select the **Systems** sub-tab. On the **Systems** page, the following item is licensed as part of the pack:
 - **Policy Violations links**
- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. On the **Groups** page, the following item is licensed as part of the pack:
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- From the Grid Control Home page, click the **Targets** tab, then select the **Groups** sub-tab. Select a group. On the **Groups** page, the following items are licensed as part of the pack:
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 - **All links in the Policy Violations section**
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 - MGMT\$BLACKOUT_HISTORY
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 - MGMT\$TEMPLATES
 - MGMT\$TEMPLATE_POLICY_SETTINGS
 - MGMT\$TEMPLATE_METRIC_COLLECTION
 - MGMT\$TEMPLATE_METRIC_SETTINGS
- **Policy Definition Views**
 - mgmt\$policies
 - mgmt\$policy_parameters
 - mgmt\$policy_violation_ctxt
 - mgmt\$policy_viol_annotatons
 - 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
- **Linux Patching**
 - MGMT\$HOSTPATCH_HOSTS
 - MGMT\$HOSTPATCH_GROUPS
 - MGMT\$HOSTPATCH_GRP_COMPL_HIST
 - MGMT\$HOSTPATCH_HOST_COMPL
- **Security Views**
 - MGMT\$ESA_ALL_PRIVS_REPORT
 - MGMT\$ESA_ANY_DICT_REPORT
 - MGMT\$ESA_ANY_PRIV_REPORT
 - MGMT\$ESA_AUDIT_SYSTEM_REPORT
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 - MGMT\$ESA_DIRECT_PRIV_REPORT
 - MGMT\$ESA_EXMPT_ACCESS_REPORT
 - MGMT\$ESA_POWER_PRIV_REPORT
 - MGMT\$ESA_PUB_PRIV_REPORT
 - MGMT\$ESA_SYS_PUB_PKG_REPORT
- **Host Configuration Views**
 - MGMT\$CSA_HOST_RULES
 - MGMT\$CSA_HOST_CPUS
 - MGMT\$CSA_HOST_IOCARDS
 - MGMT\$CSA_HOST_NICS
 - MGMT\$CSA_HOST_OS_PROPERTIES
 - MGMT\$CSA_HOST_OS_FILESYSTEMS
 - MGMT\$ECM_CONFIG_HISTORY
 - MGMT\$ECM_CONFIG_HISTORY_KEY1
 - MGMT\$ECM_CONFIG_HISTORY_KEY2
 - MGMT\$ECM_CONFIG_HISTORY_KEY3
 - MGMT\$ECM_CONFIG_HISTORY_KEY4
 - MGMT\$ECM_CONFIG_HISTORY_KEY5
 - MGMT\$ECM_CONFIG_HISTORY_KEY6
 - MGMT\$HW_NIC
 - MGMT\$OS_COMPONENTS
 - MGMT\$OS_FS_MOUNT

- MGMT\$OS_HW_SUMMARY
- MGMT\$OS_PATCHES
- MGMT\$OS_SUMMARY

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- delete_blackout
- get_blackout_details
- get_blackout_reasons
- get_blackout_targets
- get_blackouts
- stop_blackout

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 - libpng
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 - ANTLR3
 - Java Service Wrapper
 - JNI Registry 3.1.3
 - WSDL4J
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 - XDoclet 1.2.3
 - JDOM 1.0B9
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BSH-CORE 1.3.0

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IMAP Perl Module

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

1. Line 1 of method "new"

The original file has:

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

The modified file (this file) has:

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

2. Line 10 of method "new"

The original file has:

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

The modified file (this file) has:

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

Summary of the changes:

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

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.

CPAN Perl 5.8.3 Perl Kit, Version 5

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Jsch 0.1.32

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```
printf("%s", png_get_copyright(NULL));
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Java Service Wrapper

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JNI Registry 3.1.3

Release 3.1.3, September 11, 2003

The com.ice.jni.registry package is a Java native interface for the Windows Registry API. This allows Java program to access, modify, and export Windows Registry resources.

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The package will work only with Java 1.1 and greater, and uses the Javasoft native interface, not the Netscape interface. The package also includes a DLL that implements the interface. The package has been used with JDK1.2, and JDK1.3, JDK1.4, as well as JDK1.1.8.

The package includes the pre-built DLL (debug and release), source code (both the Java and the DLL's C code), as well as the compiled Java classes.

The original release was posted on November 17, 1997. The current release is 3.1.3, which was posted on September 11, 2003.

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Concurrent.jar

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MSVP60.DLL

Vcredist.exe installs the latest run-time components for Visual C++ applications

View products that this article applies to.

(<http://support.microsoft.com/default.aspx?scid=kb;en-us;259403#appliesto>)

Article ID:259403

Last Review: July 18, 2007

Revision: 6.7

This article was previously published under Q259403

SUMMARY

Vcredist.exe is a self-extracting executable file that installs the latest version of the Microsoft Visual C++ run-time files and operating system components that are required by most projects created with Visual C++ 6.0. These files include fixes that are included with Visual Studio 6.0 Service Pack 4 (SP4).

Beginning with Visual Studio 6.0 Service Pack 5, Vcredist.exe is included with the service pack. The Vcredist.exe pointed to by this article will continue to be the Visual Studio 6.0 Service Pack 4 version. To obtain the latest version of Vcredist.exe, you will need to get a copy of the latest service pack. For details, see the following Microsoft Developer Network (MSDN) Web site:

<http://msdn2.microsoft.com/en-us/vstudio/aa718359.aspx>
(<http://msdn2.microsoft.com/en-us/vstudio/aa718359.aspx>)

MORE INFORMATION

To obtain the Vcredist.exe update, download and run the following application, which installs Vcredist.exe to the directory that you specify.

The following file is available for download from the Microsoft Download Center:

Download the VC6RedistSetup_enu.exe package now.

(http://download.microsoft.com/download/vc60pro/update/1/w9xnt4/en-us/vc6redistsetup_enu.exe)

For more information about how to download Microsoft support files, click the following article number to view the article in the Microsoft Knowledge Base:

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VC6RedistSetup.exe will present you with an End User License Agreement. When you accept the agreement, a single file, Vcredist.exe, is extracted.

Vcredist.exe installs the following core files, which are included with Visual Studio 6.0 SP4. These files are base dependencies for most components and applications created with Visual C++ 6.0:

File Name	Version	Size
Asycfilt.dll	2.40.4275.1	144KB (147,728 bytes)
Atl.dll (Windows 95 and Windows 98)	3.0.8449.0	72KB (73,785 bytes)
Atl.dll (Windows NT)	3.0.8449.0	57.5KB (58,938 bytes)
Comcat.dll	4.71.1460.1	21.7KB (22,288 bytes)
Comctl32.dll (Windows 95 and Windows 98)	5.80.2614.3600	564KB (577,808 bytes)
Comctl32.dll (Windows NT)	5.80.2614.3600	544KB (557,328 bytes)
Mfc42.dll	6.0.8665.0	972KB (995,383 bytes)
Mfc42u.dll (Windows NT only)	6.0.8665.0	972KB (995,384 bytes)
Msvcirt.dll	6.0.8168.0	76KB (77,878 bytes)
Msvcp60.dll	6.0.8168.0	392KB (401,462 bytes)
Msvcrt.dll	6.0.8797.0	272KB (278,581 bytes)

File Name	Version	Size
Oleaut32.dll	2.40.4275.1	584KB (598,288 bytes)
Olepro32.dll	5.0.4275.1	160KB (164,112 bytes)
Stdole2.tlb	2.40.4275.1	17.5KB (17,920 bytes)

In addition, the following files are also installed by Vcredist.exe. These are supporting files for the Vcredist.exe Setup program:

File Name	Version	Size
Advpack.dll	4.71.1015.0	73.2KB (74,960 bytes)
W95inf16.dll	4.71.704.0	2.21KB (2,272 bytes)
W95inf32.dll	4.71.16.0	4.50KB (4,608 bytes)

Vcredist.exe supports the following command-line switches:

no switches = non-quiet mode, displays progress bar and reboot prompt

/q = semi-quiet mode, displays reboot message, and no progress bar

/q /r:n = no reboot message or progress bar

Vcredist.exe is not a full-featured installation package. As such, it is not a recommended redistribution method for the preceding files. This package does not communicate error messages back to the program or user that is starting Vcredist.exe. Therefore, we highly recommend that programs starting Vcredist.exe first check for available disk space (approximately 10 MB), read-only system files, administrator privileges, and a valid TEMP directory. The absence of any of these prerequisites can cause this package to incorrectly install some of the files onto the target system.

In addition, this package does not install any database components or localized satellite dynamic-link libraries (DLLs). For information about how to install database components such as ODBC, ADO, or DAO, please refer to the following Redistributing Microsoft Visual C++ 6.0 Applications article on the Microsoft Developer Network (MSDN) Web site:

[http://msdn2.microsoft.com/en-us/library/aa260978\(VS.60\).aspx](http://msdn2.microsoft.com/en-us/library/aa260978(VS.60).aspx)
[http://msdn2.microsoft.com/en-us/library/aa260978\(VS.60\).aspx](http://msdn2.microsoft.com/en-us/library/aa260978(VS.60).aspx)

For more information about installing localized resource DLLs for MFC, click the following article number to view the article in the Microsoft Knowledge Base:

208983 (<http://support.microsoft.com/kb/208983/>) How to use MFC LOC DLLs

Note This package does not install these components on computers that are running Microsoft Windows 2000 or Microsoft Windows Millennium (Me) systems. On computers that are running Windows 2000 and Windows Millennium, these components can only be updated through operating system updates and service packs for these operating systems.

Vcredist.exe can be freely redistributed with your application. You should also provide a copy of this Knowledge Base article.

PDH.dll 5.0.2195.2668

FILE: Latest Redistributable PDH.dll Available for Windows NT 4.0

View products that this article applies to.
(<http://support.microsoft.com/kb/284996/en-us#appliesto>)

Article ID:284996

Last Review: November 21, 2006

Revision: 4.4

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SUMMARY

Applications can use Performance Data Helper (PDH) APIs to collect performance data on Windows NT 4.0 and Windows 2000. The Windows 2000 operating system comes with PDH.dll. For Windows NT 4.0, a redistributable version of PDH.dll is available. This article provides access to this redistributable version of PDH.dll.

MORE INFORMATION

Performance Data Helper DLL (PDH.dll) for Windows NT 4.0

Note: For Windows 2000-based systems, use the system-supplied Pdh.dll file. Do not install a new version of Pdh.dll over the system-supplied version. This will fail because of Windows File Protection.

For Windows NT 4.0, install Pdh.dll into the private directory of the application (not into the system directory).

You have the following non-exclusive, royalty-free rights subject to the Distribution Requirements:

You may distribute PDH.dll on Windows NT 4.0.

The latest redistributable PDH.dll for Windows NT 4.0 that can be used by applications can be downloaded by clicking on the link below.

NT4Pdhdll.exe

(<http://download.microsoft.com/download/winntsrv40/update/5.0.2195.2668/nt4/en-us/nt4pdh.dll.exe>)

Release Date: NOV-7-2000

For additional information about how to download Microsoft Support files, click the following article number to view the article in the Microsoft Knowledge Base:

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Microsoft scanned this file for viruses. Microsoft used the most current virus-detection software that was available on the date that the file was posted. The file is stored on security-enhanced servers that help to prevent any unauthorized changes to the file. The NT4PDHDL.exe file contains the following files:

File nameSize

PDH.dll151,312

PDH.dbg8,392

PDH.pdb140,288

Redist.txt612

A redistributable version of PDH.dll can also be directly downloaded from the Microsoft Platform SDK Web site.

Mibble 2.8

Mibble

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Document No: DOC:2007:03

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Last Updated: 2007-12-05

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October 2007

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

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 - DHCP 3.0p11/p12
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- Expect 5.39.0
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perl module: IO-stty .02

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See note from author:

The two perl items in this package are an stty shell script and a module for setting terminal parameters. to use the Stty.pm module stuff it in your \$PERL_LIB_DIR/site_perl/IO directory. In your scripts do:

```
use IO::Stty;
```

```
IO::Stty::stty(*TTYHANDLE, @modes);
```

This has not been tailored to the IO::File stuff but will work with it as indicated. Before you go futzing with term parameters it's a good idea to grab the current settings and restore them when you finish.

Example:

```
use IO::Stty;
```

```
$old_mode=IO::Stty::stty(*STDIN,'-g');
```

1. Turn off echoing.

```
IO::Stty::stty(*STDIN,'-echo');
```

2. Do whatever.. grab input maybe?

```
$read_password = <>;
```

3. Now restore the old mode.

```
IO::Stty::stty(*STDIN,$old_mode);
```

4. What settings do we have anyway?

```
print IO::Stty::stty(*STDIN,'-a');
```

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The file stty.txt indicates what functions are supported. Standard POSIX stuff. If any of the settings are wrong and you actually know what some of these extremely arcane settings (like what 'sane' should be in POSIX land) really should be, let me know.

11-08-97 Austin Schutz

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perl module: IO-tty 1.02

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PostgreSQL JDBC 8.1 JDBC3 with SSL (build 408)

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Tue, 2006-10-31 04:56 - nelson

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Version 2, June 1991

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j-interop 1.23

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

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choco-wz-02 169:\$ less Guile_License.txt

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

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

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

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

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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libelf 0.8.2-2

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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libintl-perl 1.16

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pthread w32-2-7-0

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libxml2 2.6.22

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Python 2.5.2

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A. HISTORY OF THE SOFTWARE

=====

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

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

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

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

Release Derived from Year Owner GPL-compatible? (1)

0.9.0 thru 1.2 1991-1995 CWI yes

1.3 thru 1.5.2 1.2 1995-1999 CNRI yes

1.6 1.5.2 2000 CNRI no

2.0 1.6 2000 BeOpen.com no

1.6.1 1.6 2001 CNRI yes (2)

2.1 2.0+1.6.1 2001 PSF no

2.0.1 2.0+1.6.1 2001 PSF yes

2.1.1 2.1+2.0.1 2001 PSF yes

2.2 2.1.1 2001 PSF yes

2.1.2 2.1.1 2002 PSF yes

2.1.3 2.1.2 2002 PSF yes

2.2.1 2.2 2002 PSF yes

2.2.2 2.2.1 2002 PSF yes

2.2.3 2.2.2 2003 PSF yes

2.3 2.2.2 2002-2003 PSF yes

2.3.1 2.3 2002-2003 PSF yes

2.3.2 2.3.1 2002-2003 PSF yes

2.3.3 2.3.2 2002-2003 PSF yes

2.3.4 2.3.3 2004 PSF yes

2.3.5 2.3.4 2005 PSF yes

2.4 2.3 2004 PSF yes

2.4.1 2.4 2005 PSF yes

2.4.2 2.4.1 2005 PSF yes

2.4.3 2.4.2 2006 PSF yes

2.5 2.4 2006 PSF yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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slf4j 1.5

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xml-apis 1.3.04

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zlib 1.2.3

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