

**Oracle® Enterprise Manager**

Licensing Information

10g Release 4 (10.2.0.4.0)

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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 10g 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 10.2.

## Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible, with good usability, to the disabled community. 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

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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

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## **Related Documents**

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

- *Oracle Database Licensing Information* (B14199-06)
- *Oracle Application Server Licensing Information* (B14128-04) and (B28088-02)
- *Oracle Enterprise Manager Concepts* (B16241-02)

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:

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



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# Introduction

Oracle Enterprise Manager 10g 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:

- [Database Enterprise Management](#)
- [Application Server Enterprise Management](#)
- [Identity Management Enterprise Management](#)
- [Business Intelligence Management](#)
- [Other Infrastructure Management](#)
- [Service Management](#)
- [Application Management](#)
- [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 10g Grid Control Console using the following procedure.

1. Ensure that the version of Oracle Enterprise Manager 10g Grid Control that you are using is at least release 10.2.0.4.

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 Application Server Information

For additional information about licensed products associated with either Oracle Database 10g or Oracle Application Server, see *Oracle Database Licensing Information* or *Oracle Application Server Licensing Information*.

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## Database Enterprise Management

Enterprise Manager offers the following management packs for Oracle Database:

- [Diagnostics Pack](#)
- [Tuning Pack](#)
- [Change Management Pack](#)
- [Configuration Management Pack](#)
- [Provisioning Pack](#)
- [Data Masking Pack](#)

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

The Oracle Diagnostics Pack provides automatic performance diagnostic and advanced system monitoring functionality. You can access the Diagnostics Pack functionality through Enterprise Manager licensed links. The Diagnostics Pack includes the following features, which you can use after purchasing a license for the Diagnostics Pack.

- Automatic Workload Repository
- Automatic Database Diagnostic Monitor (ADDM)
- Performance monitoring (database and host)
- Event notifications: notification methods, rules, and schedules
- Event history and metric history (database and host)
- Blackouts
- Dynamic metric baselines
- Monitoring templates
- Memory access-based performance monitoring

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.

## Tuning Pack

The Oracle Tuning Pack provides database administrators with expert performance management for the Oracle environment, including SQL tuning and storage optimizations. The Oracle Diagnostics Pack is a prerequisite product to the Oracle Tuning Pack. You can access the Tuning Pack functionality through Enterprise Manager licensed links. The Tuning Pack includes the following features, which you can use after purchasing a license for the Tuning Pack:

- SQL Access Advisor
- SQL Tuning Advisor
- SQL Tuning Sets
- Reorganize objects

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.

## Change Management Pack

The Oracle Change Management Pack enables administrators to evaluate, plan, and implement database schema changes. Using the Change Management Pack, administrators can investigate and track 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 change management

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

## Features

The Change Management Pack includes the following features:

- Reverse-engineer database and schema definitions
- Capture and version baselines
- Compare databases and schemas, or baselines
- Copy database objects with data, with a subset of the data, or without data
- Update database object definitions (`ALTER TABLE`)
- Synchronize objects and schemas
- Evaluate the impact of changes
- Clone or propagate application schemas

In order to use the features listed above, you must install the Java console version of Enterprise Manager, which you can find in the `/companion` directory of the installation medium. The use of this interface requires licensing of the Change Management Pack.

## 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**
- From the Grid Control Home page, select the **Databases** sub-tab, then the **Administration** property page. In the Change Management section, the following links and associated pages are licensed as part of the pack:
  - **Dictionary Baselines**
  - **Dictionary Comparisons**

## Configuration Management Pack

The Configuration Management Pack for Oracle Database automates the time-consuming and often error-prone process of software configuration, software and hardware inventory tracking, and policy management. You can access the Configuration Management Pack functionality through Enterprise Manager licensed links. The Configuration Management Pack includes the following features you can use after purchasing a license for the Configuration Management Pack.

- Database and Host Configuration
- Deployments/installations, including patch-level
- Search configuration

- Compare configuration
- Policies, including Security checks and scoring
- Client system analyzer
- Policy groups
- Critical patch advisors
- Security at a Glance
- Configuration reports

In Enterprise Manager version 10g 10.1, three additional features were part of this pack: patch deployment (patch database and view patch cache, patch staging), clone Oracle home, and clone database. These features are no longer part of the Configuration Management Pack. They are now part of the Oracle Provisioning Pack, which is licensed with Enterprise Manager. However, if you have previously licensed the Configuration Management Pack for Oracle Database, you are entitled to use these features without licensing the Provisioning Pack.

## 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 **Databases** page, click any database **Name**. On the **Database Instance** page, the following links are licensed as part of the pack:
  - **Space Violations** under the **Space Summary** section
  - All links in the **Policy Violations** section
  - All links in the **Security** section
- From the **Database Instance** page, click the **Maintenance** sub-tab. The **Configuration** section links are licensed as part of the pack.
- From the **Database Instance Maintenance** page, click the **Metric and Policy Settings** link in the **Related Links** section. On the **Metric and Policy Settings** page, the **Policies** sub-tab is 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
- 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.

## Licensed Reports

The following reports are part of the Configuration Management Pack for Database. All reports in each of these sections are licensed for this pack. To display the Reports 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**

## Provisioning Pack

The list that follows itemizes the links that require licensing of the Provisioning 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 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 Patch Cache**, and **Patch Linux Hosts** are all licensed under the standalone Provisioning 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**, **Patch Procedures**, and **Extend Cluster Database** are all licensed under the standalone Provisioning Pack.
  - The sub-navigation tab, **Provisioning**, and the tabs under the page are all licensed under the standalone Provisioning 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 standalone Provisioning Pack.
- Select the **Maintenance** sub-tab. The **Setup and Manage** link in the Data Guard section is a licensed feature of the standalone Provisioning Pack.
- On the **Database Home** page **Maintenance** tab, the following links are licensed as part of the standalone Provisioning Pack:
  - **Apply Patch** and **View Patch Cache** under the **Database Software Patching** section
  - **Clone Database** in the **Move Database Files** column of the **Data Movement** section
- On the **Database Home** page **Administration** tab, the following links are licensed as part of the standalone Provisioning Pack:
  - **Convert to Cluster Database** link
  - **Add Instance** (only for RAC database)
  - **Delete Instance** (only for RAC database)
- On the **Agents Home** page by way of the **All Targets** page, the **Patch Oracle Software** link in the **Related Links** section is licensed.

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**Note:** For Agent patching, you must enable the standalone Provisioning Pack only for an Oracle Management Services host.

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- On each of the following target tabs, the **Security At a Glance** link is licensed as part of the standalone Provisioning Pack:
  - **Host Targets** tab, navigate to the **Host Home** page, then select the **Enterprise Security At a Glance** link.
  - **Application Servers** tab, navigate to the **Application Server 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.

## Data Masking Pack

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

- 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 Administration sub-tab. From the Database Instance Administration 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 Administration 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.

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# Application Server Enterprise Management

Enterprise Manager offers the following management packs for Oracle Application Server Enterprise Management:

- [Diagnostics Pack](#)
- [Configuration Management Pack](#)
- [Provisioning Pack for Application Server](#)
- [Management Pack for Service-Oriented Architecture \(SOA\)](#)

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

## Diagnostics Pack

This pack ensures high availability of mission-critical applications by reducing the complex tasks of diagnosing and correcting application performance problems, lowering the costs of managing web-based applications spanning multiple systems.

### Features of the Diagnostics Pack

The following features are available for the Application Server, the Application Server host, and all members of Application Server, such as OC4J, OHS, Web Cache, and Groups:

- Performance monitoring (Application Server components and host)
- Event notifications: notification methods, rules, and schedule
- Event history and metric history
- Blackouts
- Monitoring templates

### Features of Oracle Application Diagnostics for Java (Oracle AD4J)

Oracle AD4J diagnoses the root cause of Java application performance problems in Java applications with very low performance overhead. The following features are available for Oracle AD4J:

- Production diagnostics with no application instrumentation, saving time in reproducing problems
- Visibility into Java activity, including in-flight transactions, allowing administrators to proactively identify issues rather than diagnosing after-the-fact

- Tracing of transactions from Java to Oracle Database and vice-versa, enabling faster resolution of problems that span different tiers

## 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 resulting **Web Application** page, the **Page Performance** tab is a licensed feature of the Application Server Diagnostics Pack.
  - Click the **Page Performance** tab. All links, buttons, and drilldowns on the **Page Performance** page are licensed features of the Application Server Diagnostics Pack.
  - From the **Page Performance** page, the following Related Links are also part of the Application Server Diagnostics Pack:
    - \* 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 Application Server Diagnostics Pack.
  - From the **Request Performance** page, the following Related Links are also part of the Application Server Diagnostics Pack:
    - \* 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 Application Server Diagnostics Pack.
  - From the **Monitoring Configuration** page, the following Related Links are also part of the Application Server Diagnostics Pack:
    - \* 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 Application Server Diagnostics Pack.
- 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 Application Server Diagnostics Pack.
- Click the **Page Performance** tab. All links, buttons, and drilldowns on the **Page Performance** page are licensed features of the Application Server Diagnostics Pack.
- From the **Page Performance** page, the following Related Links are also part of the Application Server Diagnostics Pack:
  - \* 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 Application Server Diagnostics Pack.
    - \* Manage Watch Lists
    - \* Manage Regions
    - \* Manage Web Server Data Collection

## Configuration Management Pack

This pack automates the process of managing software and hardware configurations and deployments. This 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. The Configuration Management Pack includes features in the following categories:

- View and analyze application server and host configuration
- View and analyze application server and host deployments and installations
- Search configuration
- Compare configuration
- Manage policies, including policy notifications
- Critical Patch Advisory
- Security at a Glance
- Configuration reports
- Repository tables and views that store or expose the above data

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**Note:** In earlier releases, two additional features were part of this pack: Patch Deployment (Patch Oracle Application Server and View Patch Cache, Patch staging) and Clone Oracle Home. These features are no longer part of the Configuration Management Pack. They are now part of the Oracle Provisioning Pack, which is licensed with Enterprise Manager. However, if you have previously licensed the Configuration Management Pack for Oracle Application Server, you are entitled to use these features without licensing the Provisioning Pack.

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In order to use the features listed above, you must purchase licenses to the Oracle Application Server Configuration Management Pack. The following list itemizes the Enterprise Manager links that require licensing of the Configuration Management Pack, and should not be accessible if the Configuration Management Pack has been disabled. This applies to all Oracle Application Server related target types (such as Oracle Application Server, Oracle HTTP Server, Oracle Application Server Web Cache, Oracle Portal) as well as the hosts on which those targets reside.

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**Note:** All Oracle Enterprise Manager 10g Application Server Control functionality is included with each edition of Oracle Application Server. The links and areas that require the Configuration Management Pack are all part of Oracle Enterprise Manager 10g Grid Control, and are listed in bold.

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## Licensed Links

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

### General

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

- When you click the Setup link, there is a set of links on the left side of the Setup page:
  - The **Client System Analyzer in Grid Control** link is part of the Configuration Management Pack.

### Home Page

- On the Grid Control Home Page, there are several sections.
  - In the Critical Patch Advisories for Oracle Homes section, **all of the links** are part of the Configuration Management Pack.
  - In the Deployments Summary section, **all of the links** are part of the Configuration Management Pack.
  - In the Security Policy Violations section, **all of the links** are part of the Configuration Management Pack.
  - In the All Targets Policy Violation section, **all of the links** are part of the Configuration Management Pack.

### Deployments 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, **all of the links** are part of the Configuration Management Pack.
- In the Deployment Summary section, **all of the links** are part of the Configuration Management Pack.
- In the Configuration section, **all of the links** are part of the Configuration Management Pack.
- In the Client Configurations section, **all of the links** are part of the Configuration Management Pack.

### Compliance Page

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

- The entire **Compliance** page is part of the Configuration Management Pack.

### Reports Page

On the Grid Control Home page, there is a Reports tab. There is a table on the Reports page which lists the various reports available.

- Under the Deployment and Configuration report heading, **all of the links** are part of the Configuration Management Pack.
- Under the Monitoring heading, there is the Alerts and Policy Violations report heading, **all of the policy violations links** are part of the Configuration Management Pack.
- Under the Monitoring heading, there is the Disabled Policies report heading; **all of the links** under this heading are part of the Configuration Management Pack.

### Targets Page

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

- In the **Policy Violations** column for each host, there are numbers. The numbers in this column are links, and the links are part of the Configuration Management Pack.

### Target Host Page

From the Targets page, when you select a host, you access the Host Home page. On the Host Home page, there are several sections.

- In the **Configuration** section, all links are part of the Configuration Management Pack.
- In the **Policy Violations** section, the numbers in this section are links, and the links are part of the Configuration Management Pack.
- In the Security section, **all of the links** are part of the Configuration Management Pack.
- In the Critical Patch Advisories for Oracle Homes section, **all of the links** are part of the Configuration Management 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 the Configuration Management Pack.
- The Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management 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, there is a Targets sub-tab. On the Targets page, there is a **Policy Violations** column. The numbers in this column are links, and the links associated with Application Server targets and components are part of the Configuration Management Pack.
- On the Host Home page, there is a Configuration sub-tab. The entire **Configuration** page is part of the Configuration Management Pack.

### Application Servers Page

From the Targets page, when you select the Application Servers sub-tab, you can access application server information for all of your application servers.

- On the Application Servers page, there is a **Policy Violations** column for each server. The numbers in this column are links, and the links are part of the Configuration Management Pack.

### Application Server Instance Page

From the Application Server page, you can access application server instance information for each application server instance.

- The first page is the Application Server Instance Home page.
  - In the General section, there is a link to the **Oracle home**, and the link is part of the Configuration Management 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management 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, there is an Administration sub-tab.
  - **All of the links** in the Configuration section are part of the Configuration Management Pack.
  - **All of the links** in the Configuration Searches section are part of the Configuration Management Pack.
- On the Application Server Instance 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 the Configuration Management Pack.



### Oracle HTTP Server Pages

From the Application Servers page you can access Oracle HTTP Server information by expanding the server name list and selecting an Oracle HTTP Server instance.

- On the Oracle HTTP Server Home page, there are several sections.
  - In the General section, there is a link to the **Oracle home**, and the link is part of the Configuration Management Pack.
  - In the Policy Violation section, **all of the Policy Violation links** are part of the Configuration Management Pack.
  - In the Security section, **all of the Security links** are part of the Configuration Management 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management 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 the Configuration Management Pack.
  - **All of the links** in the Configuration Searches section are part of the Configuration Management Pack.

### Web Cache Target

From the Application Servers page you can access Oracle Web Cache information by expanding the server name list and selecting an Oracle Web Cache instance.

- On the Oracle Web Cache Home page, there are several sections;
  - In the General section, there is a link to the **Oracle home**, and the link is part of the Configuration Management Pack.
  - In the Policy Violation section, **all of the Policy Violation links** are part of the Configuration Management Pack.
  - In the Security section, **all of the Security links** are part of the Configuration Management 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management 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, there is an Administration sub-tab.

- **All of the links** in the Configuration section are part of the Configuration Management Pack.
- **All of the links** in the Configuration Searches section are part of the Configuration Management Pack.

### OC4J Target

From the Application Servers page you can access Oracle Containers for Java (OC4J) information by expanding the server name list and selecting an OC4J instance.

- On the OC4J page, there are several sections;
  - In the General section, there is a link to the **Oracle home**, and the link is part of the Configuration Management Pack.
  - In the Policy Violation section, **all of the Policy Violation links** are part of the Configuration Management Pack.
  - In the Security section, **all of the Security links** are part of the Configuration Management 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.
- On the OC4J, there is an Administration sub-tab.
  - **All of the links** in the Configuration section are part of the Configuration Management Pack.
  - **All of the links** in the Configuration Searches section are part of the Configuration Management Pack.

### Oracle Internet Directory

From the Application Servers page you can access Oracle Internet Directory information by expanding the server name list and selecting an Oracle Internet Directory instance.

- On the Oracle Internet Directory page, there are several sections;
  - 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.

### OracleAS Single Sign-On Target

From the Application Servers page you can access OracleAS Single Sign-On information by expanding the server name list and selecting an OracleAS Single Sign-On instance.

- On the OracleAS Single Sign-On Home page, there are several sections;
  - In the General section, there is a link to the **Oracle home**, and the link is part of the Configuration Management 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.

### OracleAS Portal Target

From the Application Servers page you can access OracleAS Portal information by expanding the server name list and selecting an OracleAS Portal instance.

- On the OracleAS Portal Home page, there are several sections;
  - In the General section, there is a link to the **Oracle home**, and the link is part of the Configuration Management 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.

### Oracle Reports Target

From the Application Servers page you can access Oracle Reports information by expanding the server name list and selecting an Oracle Reports instance.

- On the Oracle Reports Home page, there are several sections:
  - 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.

### OracleAS Forms Services Target

From the Application Servers page you can access OracleAS Forms Services information by expanding the server name list and selecting an OracleAS Forms Services instance.

- On the Oracle Reports Home page, there are several sections:
  - 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.

### OracleAS Wireless Target

From the Application Servers page you can access OracleAS Wireless information by expanding the server name list and selecting an OracleAS Wireless instance.

- On the Oracle Reports Home page, there are several sections:
  - 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.

### OracleBI Discoverer Target

From the Application Servers page you can access OracleBI Discoverer information by expanding the server name list and selecting an OracleBI Discoverer instance.

- On the Oracle Reports Home page, there are several sections:
  - 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.

### Oracle Application Development Framework Target

From the Application Servers page you can access Oracle Application Development Framework (Oracle ADF) information by expanding the server name list and selecting an Oracle ADF instance.

- On the Oracle Reports Home page, there are several sections;

- 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 the Configuration Management Pack.
- In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
  - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
  - \* All **Disabled Policies** links under the **Monitoring** section.

### **Oracle Application Server Integration B2B Target**

From the Application Servers page you can access Oracle Application Server Integration B2B (OracleAS Integration B2B) information by expanding the server name list and selecting an OracleAS Integration B2B instance.

- On the Oracle Reports Home page, there are several sections:
  - 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.

### **Oracle BPEL Process Manager Target**

From the Application Servers page you can access Oracle BPEL Process Manager information by expanding the server name list and selecting an Oracle BPEL Process Manager instance.

- On the Oracle BPEL Process Manager Home page, there are several sections:
  - 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.

### **Oracle Application Server Integration InterConnect Target**

From the Application Servers page you can access Oracle Application Server Integration InterConnect (OracleAS Integration InterConnect) information by expanding the server name list and selecting an OracleAS Integration InterConnect instance.

- On the OracleAS Integration InterConnect Home page, there are several sections:
  - 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 the Configuration Management Pack.

- In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
  - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
  - \* All **Disabled Policies** links under the **Monitoring** section.

#### **Oracle Workflow Target**

From the Application Servers page you can access Oracle Workflow information by expanding the server name list and selecting an Oracle Workflow instance.

- On the Oracle Workflow Home page, there are several sections:
  - 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.

#### **Oracle Content Management SDK Target**

From the Application Servers page you can access Oracle Content Management SDK information by expanding the server name list and selecting an Oracle CMSDK instance.

- On the Oracle CMSDK Home page, there are several sections:
  - 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 the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management 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 Application Servers page you can access Oracle Application Server Farm information by selecting a farm.

- On the Oracle Application Server Farm Home page, there are several sections.
  - In the Policy Violation section, **all of the Policy Violation links** are part of the Configuration Management Pack.
  - In the Configuration Changes section, **all of the Changes links** are part of the Configuration Management Pack.
  - In the Security Policy Violations section, all of the **Security Policy Violations links** are part of the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management 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 the Configuration Management Pack.
  - All of the links in the Configuration Searches section are part of the Configuration Management 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 the Configuration Management 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 the Configuration Management 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 the Configuration Management Pack.

### Oracle Application Server Cluster Pages

From the Application Servers page you can access Oracle Application Server Cluster information by selecting a cluster.

- On the Oracle Application Server Cluster Home page, there are several sections.
  - In the Policy Violation section, **all of the Policy Violation links** are part of the Configuration Management Pack.
  - In the Configuration Changes section, **all of the Changes links** are part of the Configuration Management Pack
  - In the Security Policy Violations section, all of the **Security Policy Violations links** are part of the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management 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 the Configuration Management Pack.
  - All of the links in the Configuration Searches section are part of the Configuration Management 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 the Configuration Management 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 the Configuration Management Pack.
- On the Oracle Application Server Cluster Home 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 the Configuration Management 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, and 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, there are several sections.
  - In the Configuration Changes section, **all of the Configuration Changes links** are part of the Configuration Management Pack.
  - In the Policy Violation section, **all of the Policy Violation links** are part of the Configuration Management Pack.
  - In the Security Policy Violation section, **all of the Security Policy Violation links** are part of the Configuration Management Pack.
  - In the Critical Patch Advisories for Oracle Homes section, **all of the Critical Patch Advisories for Oracle Homes links** are part of the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management 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 the Configuration Management Pack.
  - **All of the links** in the Configuration section are part of the Configuration Management 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 the Configuration Management 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 the Configuration Management 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, and click **Go**. Select an OC4J HA Group from the search results to display its Home page.



- On the OC4J HA Group Home page, there are several sections.
  - In the Configuration Changes section, **all of the Configuration Changes links** are part of the Configuration Management Pack.
  - In the Policy Violation section, **all of the Policy Violation links** are part of the Configuration Management Pack.
  - In the Security Policy Violation section, **all of the Security Policy Violation links** are part of the Configuration Management Pack.
  - In the Critical Patch Advisories for Oracle Homes section, **all of the Critical Patch Advisories for Oracle Homes links** are part of the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management 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 the Configuration Management Pack.
  - **All of the links** in the Configuration section are part of the Configuration Management 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 the Configuration Management 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 the Configuration Management Pack.

### Web Applications Target

You can access Web Application target home pages from the Web Applications sub-tab of the Targets tab. There are several sub-tabs on the Web Application target Home page.

- From the System sub-tab, there is a Component Summary. All of the links in the **Policy Violation** column are part of the Configuration Management Pack.
- From the Topology sub-tab, there is a Selection Details section. The **Policy Violation** link is part of the Configuration Management Pack.
- In the Related Links section of each page, there are several links.
  - The Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.
  - The **Client Configurations** link is part of the Configuration Management Pack.

- The **Metric and Policy Settings** link goes to the Metric and Policy Settings page. On the Metric and Policy Settings page, there is a **Policies** link, which is part of the Configuration Management Pack.

### 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 in the Policy Violations** column are part of the Configuration Management Pack.
- From the Topology sub-tab, there is a Selection Details section. The **Policy Violations** link is part of the Configuration Management Pack.
- In the Related Links section of each page, there are several links.
  - The Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.
  - The **Client Configurations** link is part of the Configuration Management Pack.
  - The Metric and Policy Settings link goes to the Metric and Policy Settings page. On the Metric and Policy Settings page, there is a **Policies** link, which is part of the Configuration Management 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 of the links in the Policy Violations** column are part of the Configuration Management Pack.
- From the Topology sub-tab, there is a Selection Details section. The **Policy Violations** link is part of the Configuration Management Pack.
- In the Related Links section of each page, there are several links.
  - The Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.
  - The **Client Configurations** link is part of the Configuration Management Pack.
  - The Metric and Policy Settings link goes to the Metric and Policy Settings page. On the Metric and Policy Settings page, there is a **Policies** link, which is part of the Configuration Management Pack.

## Systems

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 are part of the Configuration Management 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, there are several sections.
  - **All of the links** in the Policy Violation column of the Services section are part of the Configuration Management Pack.
  - **All of the links** in the Configuration Changes section are part of the Configuration Management Pack.
  - **All of the links** in the Policy Violation section are part of the Configuration Management Pack.
  - **All of the links** in the Security Policy Violations section are part of the Configuration Management Pack.
  - **All of the links** in the Critical Patch Advisories for Oracle Homes section is part of the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.
- On the Home page, there is an Administration sub-tab.
  - **All of the links** in the Deployments section are part of the Configuration Management Pack.
  - **All of the links** in the Configuration Searches section are part of the Configuration Management Pack.
- On the Home page, there is a Components sub-tab.
  - **All of the links** in the Policy Violation section are part of the Configuration Management Pack.
- On the 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 and Summary sections are part of the Configuration Management Pack.
- On the Home page, Administration page, Components page, Charts page, and Topology page, there is a **Launch Dashboard** button.
  - All of the links in the **Policy Violations** column are part of the Configuration Management Pack.

## Groups

You can access the Groups Home pages from the Groups sub-tab of the Targets tab.

- All of the links in the **Policy Violations** column are part of the Configuration Management Pack.

## Groups Target

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 will be displayed.

- On the Home page, there are several sections.
  - **All of the links** in the Policy Violation column of the Services section are part of the Configuration Management Pack.
  - **All of the links** in the Configuration Changes section are part of the Configuration Management Pack.
  - **All of the links** in the Security Policy Violations section are part of the Configuration Management Pack.
  - **All of the links** in the Critical Patch Advisories for Oracle Homes section is part of the Configuration Management Pack.
  - In the Related Links section, the Reports link goes to the Report Definitions page. The following report links are licensed as part of the Configuration Management Pack:
    - \* All **Alerts and Policy Violations** links under the **Monitoring** section.
    - \* All **Disabled Policies** links under the **Monitoring** section.
- On the Home page, there is an Administration sub-tab.
  - **All of the links** in the Deployments section are part of the Configuration Management Pack.
  - **All of the links** in the Configuration Searches section are part of the Configuration Management Pack.
- On the Home page, there is a Members sub-tab.
  - **All of the links** in the Policy Violation section are part of the Configuration Management Pack.

## Repository Views

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

- **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

## Provisioning Pack for Application Server

The Oracle Provisioning Pack for Application Server automates deployment of Oracle Application Server 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 Oracle Application Server software images, cloning of existing Oracle Application Server installations, and operating system and Oracle Application Server patching.

Enterprise Manager versions 10g 10.2.0.2 and later enable 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 creating 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 Oracle MetaLink.

The user interface can change, and links can be added or removed. Consequently, a general guideline for which links should be licensable and therefore not accessible for the Provisioning Pack is that any links in the following categories are licensable under this pack, and should therefore not be accessible without licensing:

- Bare Metal Provisioning

- Software Library
- Oracle Application Server Home cloning
- Application Server and application provisioning
- Extend Oracle Application Server DCM Managed Cluster
- Critical patch advisories for Oracle homes
- Security at a Glance
- Provisioning and deployment reports
- Automate patching for Windows, Linux, and Solaris operating systems
- Automate patching (including staging) for Oracle Application Server software

## Licensed Links

The following links are licensable with the Oracle Provisioning Pack for Application Server, and should not be accessible if the Provisioning Pack has not been licensed and enabled. The links apply to any Oracle Application Server related target type (such as Oracle Application Server, Oracle HTTP Server, Oracle Web Cache, and OC4J) as well as the hosts on which these targets reside.

### 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.

### 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.

### 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:

- **Patch Application Server**
- **Application Server Deployment 10.1.3.ISOA**
- **Application Server Deployment 10.1.3**
- **Application Server Deployment (myJ2EE) 10.1.2.0.2**
- 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**

- 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.

#### **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.

#### **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 **Web Applications** sub-tab. The Web Applications Home page appears. The following links are licensed as part of this pack:
  - **System** link in the Key Components Summary section
  - **Security at a Glance** link
- Select the **Targets** tab, then the **Web Applications** sub-tab. The Web Applications Home page appears. Select the **System property page**. The following links are licensed as part of this pack:
  - **System** link in the System section
  - **Security at a Glance** link

- Select the **Targets** tab, then the **Services** sub-tab. The Services Home page appears. The following links are licensed as part of this pack:
  - **System** link in the Key Components Summary section
  - **Security at a Glance** link
- Select the **Targets** tab, then the **Services** sub-tab. The Services Home page appears. Select the **System property page**. The following links are licensed as part of this pack:
  - **System** link in the System section
  - **Security at a Glance** link
- 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** link

## Licensed Reports

The following reports are part of the Provisioning Pack for Oracle Application Server:

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

## Licensed Repository Views

The following repository views are part of the Provisioning Pack for Oracle Application Server:

- **Oracle Home Patching Views**
  - MGMT\$EM\_HOMES\_PLATFORM
  - MGMT\$HOMES\_AFFECTED
  - 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 Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of the Provisioning Pack for Oracle Application Server.

- clone\_as\_home
- extend\_as\_home



- `get_instances`
- `get_procedure_types`
- `get_procedure_xml`
- `get_procedures`
- `provision`
- `submit_procedure`

## Management Pack for Service-Oriented Architecture (SOA)

This pack delivers comprehensive management capabilities for a SOA-based environment. By combining SOA run-time governance, business-IT alignment, 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.

### Licensed Links

- From the **Enterprise Manager Home** page:
  - Click the **Targets** tab, then the **Application Servers** sub-tab.
  - Click **Expand All** above the Application Servers table.
  - Locate the desired licensed application server name. Licensed BPEL Process Managers are indicated as **Oracle BPEL Process Manager** in the Type column. (BPEL means Business Process Execution Language.) the BPEL Process Manager link (SOAM, AD) only appears in license mode.
  - Click the licensed **BPEL Process Manager's** name. The Oracle BPEL Process Manager page appears. All links and controls on this page are licensed as part of the Management Pack for SOA.
- From the **Oracle BPEL Process Manager** page:
  - Click the **Processes** link at the top of the page. The Domain/Processes page appears, which shows all the deployed BPEL processes. All links and controls on the Processes page are licensed as part of the SOA Pack.
  - 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 Management Pack for SOA.

### Licensed Command Line Interface (CLI) Verbs

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

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

- submit\_procedure

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# 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 Identity servers. Administrators can monitor Identity service transaction performance externally from the end-user perspective, define service levels on Identity Services, and track service levels in real time.

### Features

The following major features are available for Identity Management products and associated systems:

- Discover Identity server components and out-of-the-box system modeling.
- Monitor availability and performance.
- Collect configuration information for Oracle Access Manager components.
- Provide service modeling of Identity components.
- Integrate with the Enterprise Manager plug-in for managing Identity Management 10.1.4 that was released as part of the 10.1.4 Identity Suite.

### Licensed Links

The list that follows itemizes the links that require licensing of the Management Pack for Identity Management for the Access manager Access System. However, the navigation paths are applicable for all Identity Management Systems.

- From the **Enterprise Manager Home** page:
  - Click the **Targets** tab, then the **Systems** sub-tab.
  - Click the **Name** link for the **Access Manager - Access System**. The Access Manager Home page appears. The **Alert History** button, **Alerts table** links, and **Security At a Glance** link are licensed as part of this pack.

- From the **Access Manager Home** page:
  - Click the **Alert History** button. The Alert History page and all of its links are licensed as part of this pack.
  - Click the **Security At a Glance** link. The **Security At a Glance** page that appears and all of its links are licensed as part of this pack.
- From the **Access Manager Home** page:
  - Select the **Charts** sub-tab. The Charts page and all of its links are licensed as part of this pack.
- From the **Enterprise Manager Home** page:
  - Click the **Targets** tab, then the **All Targets** sub-tab.
  - In the **Search** drop-down list, select **Access Manager - Access Server**, then click **Go**.
  - Click an **Access Server** link in the table. The Access Manager - Access Server Home page appears. The following links are licensed as part of this pack:
    - \* **View Configuration**
    - \* **Saved Configurations**
    - \* **Import Configuration**
    - \* **Configuration History**
    - \* **Compare Configuration**
    - \* **Compare Multiple Configurations**
    - \* **Alert History**
    - \* **Blackouts**

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**Note:** The configuration links above only apply to the Oracle Access Manager.

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You can also alternatively navigate to the Access Manager - Access Server page by doing the following:

- Click the **Targets** tab, then the **Systems** sub-tab.
- Click a **System Name** in the table from the **Systems** page that appears.
- Click the **Configuration** sub-tab from the **Access Manager - Access System** page that appears.
- Click an **Access Server target** in the table from the Access Manager - Access System page.
- From the **Access Manager - Access Server** page:
  - Click the **All Metrics** link in the **Related Links** section.
  - In the All Metrics page that appears, click the **Expand All** link.
  - Click a **Metrics** link for which the threshold has been set. In the metrics summary page that appears, everything is licensed as part of this pack.
- From the **Enterprise Manager Home** page:
  - Click the **Targets** tab, then the **All Targets** sub-tab.

- In the **Search** drop-down list, select **Generic Service**, then click **Go**.
- Click a **Generic Service** link in the table. The Generic Service Home page appears. The following links are licensed as part of this pack:
  - \* Test Performance sub-tab
  - \* Alert History
  - \* Blackouts
  - \* Metric Baselines
- From the **Generic Service Home** page:
  - Click the **Metric and Policy Settings** link in the **Related Links** section.
  - Click the **Tests** sub-tab. The **Tests** page that appears and all of its links are licensed as part of this pack.
- From the **Generic Service Home** page:
  - Click the **Monitoring Configuration** sub-tab.
  - Click the **Service Tests and Beacons** link. The Service Tests and Beacons page that appears and all of its links are licensed as part of this pack.
- From the **Enterprise Manager Home** page:
  - Click the **Targets** tab, then the **Services** sub-tab.
  - Click a **Web Application Name** link in the Services page.
  - In the **Key Summary table** of the **Web Application Home** page, click a **Test** name. The **Web Transaction Home** page that appears and all of its links are licensed as part of this pack.
  - Click the **Performance** sub-tab. The **Web Transaction Performance** page that appears and all of its links are licensed as part of this pack.



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## 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. 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, keep track of configuration changes, and proactively enforce configuration policies 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.

Key product features include:

- Application performance management
  - Dashboards and reports
  - Alert notifications
  - Historical metrics
  - Blackouts
  - O/S management
- Configuration management
  - Automatic discovery
  - Configuration snapshot
  - Configuration comparison
  - Change history
  - Configuration policies

### 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
  - **Access, Blackouts, Metric and Policy Settings, Client Configurations, Reports, All Metrics, Edit Service Level Rule, Monitoring Configuration** and **Target Properties** 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, Availability Definition, Performance Metrics, and Usage Metrics** links
  - **Access, Blackouts, Metric and Policy Settings, Client Configurations, Reports, All Metrics, Edit Service Level Rule, and Target Properties** 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 an **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.

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**Note:** The features in the Patching and Cloning sections are licensed under the Provisioning Pack. The Agent Installation features do not require licensing. The security links are shared by the Provisioning Pack, Database Configuration Pack, Configuration Management Pack for Non-Oracle Systems, Application Management Pack for PeopleSoft Enterprise, Business Intelligence Management Pack, and Application Server Configuration Pack.

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- 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 Reports 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\$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



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## Other Infrastructure Management

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

- [Configuration Management Pack for Non-Oracle Systems](#)
- [Diagnostics Pack for Non-Oracle Middleware](#)
- [Provisioning Pack](#)
- [Oracle System Monitoring Plug-in 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 Non-Oracle Systems

Configuration management for Non-Oracle Systems automates the time-consuming and often error-prone process of managing host software and hardware configurations and deployments other than Oracle software. This 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. This pack provides the following capabilities:

- 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 the above data

To use these features, you must purchase the license for the Configuration Management Pack for Non-Oracle Systems 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 Non-Oracle Systems, 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 management and configurations, but do not apply to Oracle software.

- **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 **Databases** page, click any database **Name**. On the **Database Instance** page, the following links are licensed as part of the pack:
  - **Space Violations** under the **Space Summary** section
  - All links in the **Policy Violations** section
  - All links in the **Security** section
- From the **Database Instance** page, click the **Maintenance** sub-tab. The **Configuration** section links are licensed as part of the pack.
- From the **Database Instance Maintenance** page, click the **Metric and Policy Settings** link in the **Related Links** section. On the **Metric and Policy Settings** page, the **Policies** sub-tab is 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 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.

## Licensed Reports

The following reports are part of the Configuration Management Pack for Non-Oracle Systems. All reports in each of these sections are licensed for this pack. To display the Reports 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 part of the Configuration Management Pack for Non-Oracle Systems:

- **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

## Diagnostics 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 BEA WebLogic Server, 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 of Oracle Application Diagnostics for Java (Oracle AD4J)

Oracle AD4J diagnoses the root cause of Java application performance problems in Java applications with very low performance overhead. The following features are available for Oracle AD4J:

- Production diagnostics with no application instrumentation, saving time in reproducing problems
- Visibility into Java activity, including in-flight transactions, allowing administrators to proactively identify issues rather than diagnosing after-the-fact
- Tracing of transactions from Java to Oracle Database and vice-versa, enabling faster resolution of problems that span different tiers

## Diagnostics Pack Licensed Links

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

- From the **Grid Control Home page**, select the **Targets** tab, then the **Web Applications** sub-tab. Click any **Web Application Name** in the table. On the resulting **Web Application** page, the **Page Performance** tab is a licensed feature of the Diagnostics Pack for Non-Oracle Middleware.
- All the pages in Oracle AD4J.
- From the **Grid Control Home page**, select the **Targets** tab, then select the **Application Servers** sub-tab. On the **Application Servers** page, the following links on the **Add** drop down menu are licensable features of the Diagnostics Pack for Non-Oracle Middleware.
  - **BEA WebLogic Server Domain**
  - **IBM WebSphere Application Server Cell**
  - **IBM WebSphere Application Server**
  - **JBoss Application Server**
- 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 Diagnostics Pack for Non-Oracle Middleware:
  - **BEA WebLogic Managed Server**
  - **IBM Websphere Application Server**
  - **JBoss Application Server**
  - **Apache Tomcat**

## 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 Diagnostics Pack for Non-Oracle Middleware:

- `add_target`

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

- `websphere_j2eeserver`
- `weblogic_j2eeserver`
- `jboss_j2eeserver`
- `tomcat`

## Provisioning Pack

The Provisioning 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, and

Oracle Application Servers), cloning of existing installations and Oracle databases, and patching.

Enterprise Manager versions 10g 10.2.0.2 and later enable 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 Oracle MetaLink.

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**Note:** In Enterprise Manager 10g 10.1, three features that are currently licensed as part of the Oracle Provisioning Pack were previously part of the Configuration Management Pack: Patch Deployment (Patch Database and View Patch Cache, Patch staging), Clone Oracle Home, and Clone Database. If you have previously licensed the Oracle Configuration Management Pack for Database, you are entitled to use these features without licensing the Oracle Provisioning Pack.

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

## Provisioning 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 pack.

**Table 6–1 Former Configuration Management Pack Features in Provisioning Pack**

Feature	Description
Critical Patch Facility	Grid Control performs an assessment of 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. The Critical Patch Facility enables administrators to download the Critical Patch metadata from Oracle MetaLink and upload it to the repository. The "RefreshFromMetalink" job can then use this metadata to perform Critical Patch calculations in offline mode. Administrators will be alerted to security updates even if the Management Service is not connected to Oracle MetaLink. The Critical Patch Facility's offline mode makes it easy to keep your environment patched to the latest level.  Only the Critical Patch Facility advisors remain in the Configuration Management Pack.
Database Cloning	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.
ORACLE_HOME Cloning	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.
ORACLE_HOME and Target Patching	Use this feature to patch an ORACLE_HOME.



## Features Shared By Provisioning Pack and Configuration Management Packs

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

**Table 6–2 Features Shared by Provisioning Pack and Configuration Management Packs**

Feature	Description
Security at a Glance	This feature is completely shared between the Provisioning Pack and the Configuration Management packs.
Critical Patch Advisory	The Advisory portion of the Critical Patch Facility is common to both the Provisioning Pack and the Configuration Management packs. See the description of the Critical Patch Facility in <a href="#">Table 6–1</a> .

## Features Exclusive to the Provisioning Pack

The following features are available only in the Provisioning Pack.

**Table 6–3 Features Exclusive to Provisioning 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 <sup>a</sup>	Extends RAC clusters or Oracle Application Server middleware.
Adding a Database Instance	Adds a database instance to Enterprise Manager.
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 application servers).
Operating System Patching	Patches Linux, Solaris, and Windows operating systems.

<sup>a</sup> Feature that is part of the Oracle Enterprise Manager Provisioning Pack for versions 10g 10.2.0.2 and later.

## Provisioning Pack Licensed Links

The list that follows itemizes the links that require licensing of the Provisioning 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 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 Patch Cache**, and **Patch Linux Hosts** are all licensed under the Provisioning 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**, **Patch Procedures**, and **Extend Cluster Database** are all licensed under the Provisioning Pack.
- The sub-navigation tab, **Provisioning**, and the tabs under the page are all licensed under the Provisioning 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 Pack.
  - Select the **Maintenance** sub-tab. The **Setup and Manage** link in the **Data Guard** section is a licensed feature of the Provisioning Pack.
- On the **Database Home page Maintenance tab**, the following links are licensed as part of the Provisioning Pack:
  - **Apply Patch** and **View Patch Cache** under the **Database Software Patching section**
  - **Clone Database** in the **Move Database Files** column of the **Data Movement section**
- On the **Database Home page Administration tab**, the following links are licensed as part of the Provisioning Pack:
  - **Convert to Cluster Database** link
  - **Add Instance** (only for RAC database)
  - **Delete Instance** (only for RAC database)
- On the **Agents Home page** by way of the **All Targets page**, the **Patch Oracle Software** link in the **Related Links** section is licensed.

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**Note:** For Agent patching, you must enable the Provisioning Pack only for an Oracle Management Services host.

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- On each of the following target tabs, the **Security At a Glance** link is licensed as part of the Provisioning Pack:
  - **Host Targets tab**, navigate to the **Host Home page**, then select the **Enterprise Security At a Glance** link.
  - **Application Servers tab**, navigate to the **Application Server 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.

## Licensed Command Line Interface (CLI) Verbs

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

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

## Deploying and Managing 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.

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.

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**Note:** Not all management plug-ins described in this guide are available on the Management Plug-Ins page. 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.

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To deploy a plug-in in the Oracle Enterprise Manager 10g 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-in 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 and Managing Management Plug-Ins for Oracle Enterprise Manager](#)

Enterprise Manager offers the following Plug-ins for Hosts:

- [System Monitoring Plug-in for Hosts for Operating Systems and Hardware](#)
- [System Monitoring Plug-in for Hosts for VMware ESX Server](#)

### 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 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 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 activity 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 **Application Servers**. Click an application server. On the **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 Reports 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

## System Monitoring Plug-in for Hosts for VMware ESX Server

The following sections explain the features, licensed links, 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
- 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

To use the features above, you must license the System Monitoring Plug-in for Hosts for VMware ESX Server.

### Licensed Links

The following selection is a licensed feature of the System Monitoring Plug-in for Hosts for VMware ESX Server:

- 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 **VMware ESX Server** selection from the **Add** drop-down menu under the Monitored Targets section is a licensed feature of the System Monitoring Plug-in for Hosts for VMware ESX Server.

### Licensed Command Line Interface (CLI) Verbs

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

- add\_target

The internal name to be used with the add\_target verb is:

- vmware\_esx\_server

## 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 Symetrix DMX system
- Oracle System Monitoring Plug-in for EMC CLARiiON system
- Oracle System Monitoring Plug-in for EMC NS Series NAS

**See Also:** [Deploying and Managing 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.

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**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.

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- 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 F5 Load Balancers
- Oracle System Monitoring Plug-in for Check Point Firewall
- Oracle System Monitoring Plug-in for Juniper Netscreen Firewall

**See Also:** [Deploying and Managing 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.

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**Note:** This section does not include feature links that may contain information derived from adding F5 BIG-IP Server Load Balancers instances, but are considered part of the System Monitoring Plug-in for Network Devices Pack.

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- 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 BIG-IP Local Traffic Manager, 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:

- `f5_bigip_v9plus_loadbalancer`
- `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 Internet Information Services
- 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 BizTalk Server
- Oracle System Monitoring Plug-in for Microsoft Internet Security and Acceleration Server

**See Also:** [Deploying and Managing 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, Microsoft Internet Information Services, 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.

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**Note:** This section does not include feature links that may contain information derived from adding non-Oracle Middleware instances to Grid Control, but are considered part of the System Monitoring Plug-in for Non-Oracle Middleware.

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- 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 Internet Information Services (Microsoft IIS)**
  - **Microsoft .NET Framework**



- Microsoft Commerce Server
- Microsoft BizTalk Server
- Microsoft Internet Security and Acceleration Server (Microsoft ISA Server)
- Microsoft Exchange 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\_iis
- microsoft\_dotnet
- microsoft\_commerceserver
- microsoft\_biztalk
- microsoft\_isaserver
- microsoft\_exchange

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**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.

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## System Monitoring Plug-Ins for Non-Oracle Databases

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

- Microsoft SQL Server
- IBM DB2

**See Also:** [Deploying and Managing 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`

## Management Connectors

Enterprise Manager 10g Release 3 delivered Management Connectors to 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 Connector for Remedy Help Desk](#)
- [Management Connector for Microsoft Operations Manager 2005](#)

## Management Connector for Remedy Help Desk

The Enterprise Manager Management Connector for Remedy Help Desk provides seamless integration between Enterprise Manager and Remedy to support a seamless workflow for incident management and resolution.

The Management Connector for Remedy Help Desk 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 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.

### 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 **Methods** property page. In the Advanced Notification Methods table, any name associated with Remedy 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 Related Links section is a licensed feature of the Management Connector for Remedy Help Desk.

### Licensed Repository Views

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

- 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.

### 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 Remedy is a licensed feature of the Management Connector for Remedy Help Desk.

- 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 Remedy Help Desk.

### **Licensed Repository Views**

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

- MGMT\$CONNECTOR

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## Service Management

Enterprise Manager offers the following management pack for Service Management:

- [Service Level Management Pack](#)

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

### Service Level Management Pack

The Service Level Management (SLM) Pack 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, the Service Level Management Pack assesses the business impact of any service problem or failure, and indicates whether service level goals have been met.

The Service Level Management Pack was introduced with Enterprise Manager version 10g release 2. 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 10g release 2:

- Web Application service test monitoring with HTTP and HTTP(s) protocols
- Host monitoring with ping protocol

All other functionality included with the Service Level Management Pack requires licensing of the pack.

### Service Level Management Pack Licensed Links

The following information describes the Enterprise Manager links that require licensing of the Service Level Management Pack. This information does not include feature links that may contain information derived from the creation of tests and beacons, but are considered part of the Service Level Management Pack. 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 the Service Level Management Pack.
  - 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 the Service Level Management Pack.
  - 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 the Service Level Management Pack.
  - 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 the Service Level Management Pack.
  - 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 the Service Level Management Pack.
- 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 the Service Level Management Pack.
  - On the **Service Home** page, click the **Test Performance** sub-tab. All links and controls on this page are licensed as part of the Service Level Management Pack.
- The following **Related Links** are also part of the Service Level Management Pack:
  - Alert History
  - Blackouts
  - Metric Baselines
  - Past Changes
  - Pending Changes (where applicable)

### Web Applications 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 **Web Applications** sub-tab:
  - On the **Web Applications** page, click **Add** to add a service. Select **Service Test** from the drop down-menu on the **Availability** page of the Create Web Application wizard. Defining a Web application's availability based on the

execution of a service test is a licensed feature of the Service Level Management Pack.

- On the **Web Applications** page, click **Add** to add a service. The **Beacons** page of the **Create Web Application wizard** is a licensed feature of the Service Level Management Pack.
- On the **Web Applications** page, click any **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 the Service Level Management Pack.
- 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 the Service Level Management Pack.
- For monitoring pages, from the **Enterprise Manager Home** page, go to the **Targets** tab and then select the **Web Applications** sub-tab:
  - On the **Web Applications** page, click a Web application **Name** link in the table to go to the Web Application Home page. The **Test Performance** link and **Black Out** button are licensed features of the Service Level Management Pack.
- The following **Related Links** are also part of the Service Level Management Pack:
  - 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 the Service Level Management Pack.
  - 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 the Service Level Management Pack.
  - 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 the Service Level Management Pack.
  - 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 the Service Level Management Pack.

- 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 the Service Level Management Pack.
- The following **Related Links** are also part of the Service Level Management Pack:
  - Alert History
  - Blackouts
  - Metric Baselines
  - Past Changes
  - Pending Changes (where applicable)

### Licensed Command Line Interface (CLI) Verbs

The following Enterprise Manager CLI verbs are licensed as part of the Service Level Management Pack.

- 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



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# Application Management

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

- [Application Management Pack for PeopleSoft](#)
- [Application Management Pack for Siebel](#)
- [Application Management Pack for E-Business Suite](#)

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

## Application Management Pack for PeopleSoft

This pack offers comprehensive application 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 Pack for PeopleSoft significantly reduces the cost and complexity of managing PeopleSoft Enterprise environments.

Features of the following packs are also licensed as part of the Oracle Manager Application Management Pack for PeopleSoft:

- [Service Level Management for PeopleSoft](#)
- [Configuration Management for PeopleSoft](#)

The following sections discuss the licensed features for the Application Management Pack for PeopleSoft as well as the Service Level Management and Configuration Management licensed features within this pack.

## Licensed Links for PeopleSoft

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

- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **PeopleSoft** subtab:
  - The **All PeopleSoft Targets** page is a licensed feature of the Application Management Pack 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack for PeopleSoft.
- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **Systems** subtab:
  - 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 Pack for PeopleSoft.
  - From the **System** page, click the **Topology** subtab. 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 Pack for PeopleSoft.

## Service Level Management for PeopleSoft

Features associated with the Service Level Management (SLM) Pack are also licensed as part of the Application Management Pack 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 Pack 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** subtab:
  - 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 Pack 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 Pack 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 Pack 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 Pack for PeopleSoft.
- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Web Applications** subtab:
  - On the Web Application page, click **Add** to define a service to model and monitor a business process or application. The **Beacons** page of the **Add Web Application** wizard is a licensed feature of Service Level Management within the Application Management Pack for PeopleSoft.
  - On the Web Application page, click **Add** to define a service to model and monitor a business process or application. Defining a Web 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 Pack for PeopleSoft.
  - On the Web 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 Pack for PeopleSoft.
  - On the Web 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 Pack for PeopleSoft.

- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **All Targets** subtab. 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 Pack 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 Pack 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 Pack 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 Domain
- PS Process Scheduler Domain
- PS Search Server Domain
- PS Web Site
- PS Application Server Database
- PS PIA

Configuration Management features of the Application Management Pack 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

### **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 Pack 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.

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**Note:** The features in the Patching and Cloning sections are licensed under the Provisioning Pack. The Agent Installation features do not require licensing. The security links are shared by the Provisioning Pack, Database Configuration Pack, Configuration Management Pack for Non-Oracle Systems, Application Management Pack for PeopleSoft, Application Management Pack for Siebel, and Application Server Configuration Pack.

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Chung: In the note above, are we missing the E-business and BI packs?

- 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack for PeopleSoft. All reports in each of these sections are features of Configuration Management within the Application Management Pack for PeopleSoft. To display the Reports 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 Pack 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

## Application Management Pack for Siebel

This pack 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 Pack for Siebel significantly reduces the cost and complexity of managing Siebel environments.

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

## Licensed Links for Siebel

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

- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **Siebel** subtab and select the **Siebel Enterprise View** from the drop-down list:
  - The **Siebel System Targets** page is a licensed feature of the Application Management Pack 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 Pack 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 Pack 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 Pack for Siebel.
- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **Systems** subtab:
  - 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 Pack for Siebel.

## Service Level Management Pack Licensed Links for Siebel

Features associated with the Service Level Management (SLM) Pack are also licensed as part of the Oracle Application Management Pack 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 Pack 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** subtab:

- 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 Pack for Siebel.
- From the Enterprise Manager Grid Control Console Home page, click the **Targets** tab, then click the **Siebel** subtab 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 Pack 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 Pack 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 Application Management Pack 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 Pack for Siebel.
- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **Siebel** subtab 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 Pack 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 Pack 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 Pack 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 Pack for Siebel.
- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **All Targets** subtab. 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 Pack 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 Pack for Siebel:

- emcli apply\_template\_tests
- emcli create\_service
- emcli add\_target

### Configuration Management Licensed Links for Siebel

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 Pack 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 Pack 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

### Licensed Links

The following licensed pages and links of this pack 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 Pack 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.

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**Note:** The features in the Patching and Cloning sections are licensed under the Provisioning Pack. The Agent Installation features do not require licensing. The security links are shared by the Provisioning Pack, Database Configuration Pack, Configuration Management Pack for Non-Oracle Systems, Application Management Pack for PeopleSoft Enterprise, Application Management Pack for Siebel, and Application Server Configuration Pack.

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- 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 Pack 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 Pack 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 Pack 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 Pack 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 Pack for Siebel.
- 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 Pack 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 items are licensed features of Configuration Management within the Application Management Pack 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 Pack 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 Pack 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 Pack 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 Pack for Siebel. All reports in each of these sections are features of Configuration Management within the Application Management Pack for Siebel. To display the Reports 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 Pack 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

## Application Management Pack for E-Business Suite

This pack offers comprehensive application 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 Pack for E-Business Suite significantly reduces the cost and complexity of managing Oracle E-Business Suite environments.

The following information describes the Enterprise Manager links that require licensing of the Application Management Pack for E-Business Suite. The list that follows assumes that you begin from the main Grid Control Home page.

### Licensed Links for E-Business Suite

The following information describes the Enterprise Manager links that require licensing of the Application Management Pack for 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** subtab:

- The **All Oracle E-Business Suite Systems** page is a licensed feature of the Application Management Pack for 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 Application Management Pack for 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 Pack for E-Business Suite.
- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **Systems** subtab:
  - 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 Pack for 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 Pack for E-Business Suite.

## Service Level Management Pack Licensed Links for E-Business Suite

Features associated with the Service Level Management (SLM) Pack is also licensed as part of the Oracle Application Management Pack for 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 Pack for 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** subtab:
  - 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 Pack for 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 Pack for 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 Pack for 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 Pack for E-Business Suite.
- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **Web Applications** subtab:
  - On the **Web Application** page, click **Add** to define a service to model and monitor a business process or application. The **Beacons** page of the **Add Web Application** wizard is a licensed feature of Service Level Management within the Application Management Pack for E-Business Suite.
  - On the **Web Application** page, click **Add** to define a service to model and monitor a business process or application. Defining a Web 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 Pack for E-Business Suite.
  - On the **Web 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 Pack for E-Business Suite.
  - On the **Web 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 Pack for E-Business Suite.
  - On the **Web Application** page, the **Page Performance Tab** and the subsequent pages associated with **Page Performance Analysis** are licensed features of Application Management Pack for E-Business Suite.
- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **Services** subtab:
  - 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 Pack for 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 Pack for 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 Pack for 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 Pack for 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 Pack for E-Business Suite.
- From the **Enterprise Manager Grid Control Console Home** page, click the **Targets** tab, then click the **All Targets** subtab. 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 Pack for 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 Pack for 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 Pack for 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 Pack 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.

### 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 Pack for 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.

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

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- 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 Pack for 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 Pack for 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 Pack for 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 Pack for 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 Pack for 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 Pack for 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 Pack for 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 Pack for 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 Pack for 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 Pack for 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 Pack for E-Business Suite. All reports in each of these sections are features of Configuration Management within the Application Management Pack for E-Business Suite. To display the Reports 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 Pack for 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

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# 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.

## 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. Key features of the pack include:

- Host Monitoring
  - Real-time and historical performance monitoring and trending (hosts)
  - 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)
- Host administration
- Linux operating system patching
- Linux provisioning
- Configuration management
  - Configuration collection
  - Configuration summary
  - Configuration search
  - Configuration compare
  - Configuration history
  - Policies
- Reports

You can navigate to these features in several ways. The sections that follow discuss the licensable features of the Linux Management Pack, and itemize the links that require licensing of the pack.

## 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, is a licensed activity 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 **Application Servers**. Click an application server. On the **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 **Deployments** tab, then click the **Provisioning** sub-tab.
- From the Grid Control Home page, click the **Deployments** tab. The following items are licensed as part of the pack:
  - **Patch Linux Hosts**
  - **Patching through Deployment Procedures**
  - **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:
  - 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 Linux Management Pack. To display the Reports 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

## Licensed Repository Views

The following repository views are part of the Linux Management Pack:

- **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
- **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

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- delete\_blackout
- get\_blackout\_details
- get\_blackout\_reasons

- `get_blackout_targets`
- `get_blackouts`
- `stop_blackout`

---

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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.

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