

# **Oracle® Guardian 10.3.1.0.0**

User Guide

Release 10.3.1.0.0

January 2009

**ORACLE®**

Copyright © 2007, 2009, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications which may create a risk of personal injury. If you use this software in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure the safe use of this software. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software in dangerous applications.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

This software and documentation may provide access to or information on content, products and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

# Contents

## 1. About Oracle Guardian

Introduction . . . . .	1-2
Guardian User Interface . . . . .	1-2
Main Menu Bar . . . . .	1-3
Keyboard Shortcuts. . . . .	1-4
File Menu . . . . .	1-4
Edit Menu . . . . .	1-6
Tools Menu . . . . .	1-6
Window Menu . . . . .	1-7
Help Menu . . . . .	1-8
Main Toolbar . . . . .	1-9
Context Menus . . . . .	1-10
Navigation Pane . . . . .	1-10
Explorer Views . . . . .	1-10
Explorer Toolbar Icons . . . . .	1-12
Explorer Toolbar Menus . . . . .	1-12
Explorer Context Menus . . . . .	1-14
Document Pane . . . . .	1-14
Document Views. . . . .	1-14
Document View Titlebars . . . . .	1-15
Document Pane View Context Menus . . . . .	1-16
Wizards . . . . .	1-17

Wizard Titlebar Menus . . . . .	1-19
Guardian Online Help System . . . . .	1-20
Guardian Command Line Interface . . . . .	1-20
Key Concepts . . . . .	1-21
Guardian Agent . . . . .	1-22
Multiple Guardian Agent Threads . . . . .	1-22
Guardian Workspace . . . . .	1-23
Guardian Registry . . . . .	1-23
Domain . . . . .	1-24
Domain Nodes . . . . .	1-24
Domain Groups . . . . .	1-24
Domain Inventory . . . . .	1-25
Signature . . . . .	1-25
Signature Bundle . . . . .	1-26
Signature Annotations . . . . .	1-26
Evaluation . . . . .	1-27
Snapshot Evaluation . . . . .	1-27
Evaluation Summary . . . . .	1-27
Signature Repository . . . . .	1-27
Shortcut . . . . .	1-27
Support Service Request . . . . .	1-28
Security . . . . .	1-28
Authentication . . . . .	1-28
Data Encryption . . . . .	1-29
Secure Transmission . . . . .	1-29
Privacy . . . . .	1-29
Key Tasks . . . . .	1-31
Activate Domain . . . . .	1-31

Inventory Domain . . . . .	1-31
Evaluate Domain . . . . .	1-32
Update Guardian . . . . .	1-32
Example Scenarios . . . . .	1-33
Scenario 1: Development Cycle Evaluations . . . . .	1-33
Scenario 2: Heavy Load Evaluations. . . . .	1-33
Scenario 3: Application Update Evaluations. . . . .	1-33
Scenario 4: Vendor Software Update Evaluations. . . . .	1-33
Scenario 5: Post Repair Evaluations . . . . .	1-33
Scenario 6: Post Domain Change Evaluations . . . . .	1-33
Scenario 7: Scheduled Overnight Evaluations . . . . .	1-34
Scenario 8: Heartbeat Evaluations. . . . .	1-34
Scenario 9: Diagnostic Evaluations. . . . .	1-34
Supported Targets . . . . .	1-35

## 2. Tasks

Basic Tasks . . . . .	2-38
Guardian Agent. . . . .	2-40
Manually Deploy the Guardian Agent. . . . .	2-40
Deploy Guardian Agent from WebLogic Server Administration Console . .	2-41
Deploy Guardian Agent to Multiple Servers . . . . .	2-42
Configure Maximum Agent Threads. . . . .	2-43
Configure Agent Thread Timeout . . . . .	2-44
Workspaces. . . . .	2-45
Select Workspace. . . . .	2-45
Export Workspace . . . . .	2-47
Import Workspace . . . . .	2-48
Preferences . . . . .	2-49

Configure Preferences . . . . .	2-49
Export Preferences . . . . .	2-50
Import Preferences . . . . .	2-51
Domains . . . . .	2-52
Activate Domain . . . . .	2-52
Activate Multiple Domains . . . . .	2-54
Deactivate Domain . . . . .	2-55
Modify Domain Properties . . . . .	2-56
Purge All Inactive Domains . . . . .	2-57
Domain Groups . . . . .	2-57
Add Domain Group . . . . .	2-57
Rename Domain Group . . . . .	2-58
Delete Domain Group . . . . .	2-58
Proxy Servers . . . . .	2-59
Add Inbound Proxy Servers . . . . .	2-59
Enable Inbound Proxy Connection . . . . .	2-60
Enable and Test Outbound Proxy . . . . .	2-61
Inventories and Evaluations . . . . .	2-61
Inventory Domain . . . . .	2-62
View Domain Inventories and Evaluation Summaries . . . . .	2-62
Evaluate Domain . . . . .	2-63
Evaluate Snapshot . . . . .	2-64
Compare Inventories or Evaluations . . . . .	2-66
Export Inventory or Evaluation . . . . .	2-67
Signatures . . . . .	2-68
View Signature Overview . . . . .	2-68
Filter Signatures . . . . .	2-68
Sort Signatures . . . . .	2-69

Sort Menu . . . . .	2-70
Sorting Dialog Box . . . . .	2-70
Signature Annotations . . . . .	2-71
Annotate Signature . . . . .	2-72
Edit Annotation . . . . .	2-73
Delete Annotation . . . . .	2-74
View Annotations . . . . .	2-74
Filter Annotated Signatures . . . . .	2-75
Bundles . . . . .	2-76
Explore Bundles . . . . .	2-76
View Bundle Overview . . . . .	2-76
Evaluate Bundles . . . . .	2-76
Shortcuts . . . . .	2-78
Create Shortcut . . . . .	2-78
Create Shortcut with Shortcut Wizard . . . . .	2-78
Create Shortcut with Evaluation Wizard . . . . .	2-79
Evaluate Shortcut . . . . .	2-80
Delete Shortcut . . . . .	2-81
Command Line Interface . . . . .	2-82
Start Guardian Headless Mode . . . . .	2-82
Redirecting Guardian CLI Command Output . . . . .	2-83
Run Scripts . . . . .	2-84
Viewing CLI Script Results . . . . .	2-85
Schedule Scripts . . . . .	2-85
Receive Notifications . . . . .	2-86
Troubleshooting . . . . .	2-87
View Logfiles . . . . .	2-87
Crash Recovery . . . . .	2-87

Resolve Exceptions . . . . .	2-88
Support . . . . .	2-88
Creating a Service Request Archive . . . . .	2-88
Updates and Upgrades . . . . .	2-90
Automatically Update Guardian . . . . .	2-91
Manually Update Guardian . . . . .	2-93
Manually Update Guardian Registry . . . . .	2-95
Check Product Configuration . . . . .	2-95

## 3. Reference

Main Menu Bar . . . . .	3-98
Keyboard Shortcuts. . . . .	3-98
File Menu . . . . .	3-99
Edit Menu . . . . .	3-100
Tools Menu . . . . .	3-100
Window Menu. . . . .	3-101
Help Menu. . . . .	3-102
Main Toolbar . . . . .	3-103
Context Menus . . . . .	3-104
Navigation Pane . . . . .	3-105
Navigation Pane Elements . . . . .	3-105
Explorer Views. . . . .	3-105
Explorer Toolbar Icons . . . . .	3-107
Explorer Toolbar Menus . . . . .	3-108
Explorer Context Menus . . . . .	3-109
Domain Explorer. . . . .	3-109
Domain Nodes . . . . .	3-111
Domain History Folders. . . . .	3-113



Domain Explorer Toolbar Menu . . . . .	3-114
Domain Explorer Context Menu . . . . .	3-115
Domain Properties Dialog Box . . . . .	3-116
Evaluate from File Dialog Box . . . . .	3-118
Add Domain Group Dialog Box . . . . .	3-119
Rename Domain Group Dialog Box . . . . .	3-119
Signature Explorer. . . . .	3-121
Signature Severity Icons. . . . .	3-121
Signature Explorer Toolbar Menu . . . . .	3-122
Signature Explorer Context Menu . . . . .	3-123
Bundle Explorer. . . . .	3-124
Bundle and Signature Severity Icons . . . . .	3-126
Bundle Explorer Toolbar Menu . . . . .	3-127
Bundle Explorer Context Menu . . . . .	3-128
Shortcut Explorer. . . . .	3-129
Shortcut Explorer Context Menu . . . . .	3-129
Document Pane. . . . .	3-131
Document Views . . . . .	3-131
Document Pane Outline Views . . . . .	3-133
Document View Titlebars . . . . .	3-134
Document View Context Menus . . . . .	3-135
Document View Edit Menus . . . . .	3-135
Domain Inventory View . . . . .	3-136
Domain Inventory Overview Tab. . . . .	3-137
Domain Inventory Source Tab . . . . .	3-139
Domain Inventory Report Tab . . . . .	3-140
Evaluation Summary View . . . . .	3-141
Evaluation Summary Overview Tab . . . . .	3-142

Evaluation Summary Source Tab . . . . .	3-148
Evaluation Summary Report Tab . . . . .	3-148
Text Compare View . . . . .	3-150
Text Compare View Context Menu . . . . .	3-151
Signature View . . . . .	3-153
Signature View Overview Tab . . . . .	3-153
Signature View Source Tab . . . . .	3-154
Signature View Report Tab . . . . .	3-155
Signature Bundle View . . . . .	3-156
Signature Bundle View Overview Tab . . . . .	3-156
Signature Bundle View Report Tab . . . . .	3-157
Active Domains Table . . . . .	3-158
Active Domains Table Toolbar Buttons . . . . .	3-158
Shortcuts Table . . . . .	3-160
Shortcuts Table Toolbar . . . . .	3-161
Preferences . . . . .	3-162
Wizards . . . . .	3-165
Wizard Titlebar Menus . . . . .	3-167
Annotations Wizard . . . . .	3-168
Annotations Table . . . . .	3-169
Bundle Evaluation Wizard . . . . .	3-170
Domain Activation Wizard . . . . .	3-173
General Tab . . . . .	3-174
Advanced Tab . . . . .	3-175
Domain Deactivation Wizard . . . . .	3-176
Evaluation Wizard . . . . .	3-178
Filters Wizard . . . . .	3-180
Inventory Wizard . . . . .	3-183

Shortcut Wizard . . . . .	3-185
Shortcut Evaluation Wizard . . . . .	3-188
Service Request Wizard . . . . .	3-190
Update Wizard . . . . .	3-192
Log Files . . . . .	3-194
Command Line Interface . . . . .	3-196
Important Notes . . . . .	3-196
Overview of CLI Commands . . . . .	3-197
CLI Command Reference . . . . .	3-199
activateDomain . . . . .	3-199
createShortcut . . . . .	3-200
deactivateDomain . . . . .	3-201
deleteShortcut . . . . .	3-201
evaluateDomainBundle . . . . .	3-202
evaluateShortcut . . . . .	3-203
help . . . . .	3-203
inventoryDomain . . . . .	3-204
listActiveDomains . . . . .	3-204
listBundles . . . . .	3-205
listShortcuts . . . . .	3-205
script . . . . .	3-205

## A. Appendix A: Apache License

Apache License . . . . .	A-209
Apache Modules . . . . .	A-213

## B. Appendix B: Eclipse License

Eclipse Foundation Software User Agreement . . . . .	B-217
--	-------

Usage Of Content . . . . .	B-217
Applicable Licenses . . . . .	B-217
Cryptography . . . . .	B-219
Eclipse Modules . . . . .	B-220

# About Oracle Guardian

This chapter provides an overview of Guardian components, features, and key concepts. Also provided are basic instructions for using and navigating the Guardian User Interface and Online Help System. Topics include the following:

- [Introduction](#)
- [Guardian User Interface](#)
- [Guardian Online Help System](#)
- [Guardian Command Line Interface](#)
- [Key Concepts](#)
- [Security](#)
- [Privacy](#)
- [Key Tasks](#)
- [Example Scenarios](#)
- [Supported Targets](#)

# Introduction

Guardian is a diagnostic tool for identifying potential problems in your environment before they occur, and provides specific instructions for resolving them. Guardian is like having the entire Oracle Customer Support Team scrutinize your domain and immediately present their findings and recommendations to you, at your convenience.

Guardian can run on Windows or Linux systems that have Java Version 5 or higher installed. Guardian can evaluate any platform based on WebLogic Server version 8.1 through 10.3, regardless of the operating system on which it is running.

To use Guardian, you must first activate one or more [Domains](#) in Guardian. A domain is a logically related group of WebLogic Server resources that you manage as a unit. Activating a domain enables it for Guardian evaluation. You can also organize multiple domains into [Domain Groups](#). Then, select one or more domains, select a [Signature Bundle](#), and launch an [Evaluation](#). Guardian then proceeds to evaluate the Signature Bundle against the specified domain(s), and generates a detailed report of potential issues and their remedies. You can then review the report and decide how to proceed.

For a description of fundamental Guardian concepts, see [Key Concepts](#) on [page 21](#). For a description of and instructions for basic Guardian tasks, see [Basic Tasks](#) on [page 38](#) in [Chapter 2, “Tasks.”](#)

The following section provides an overview and basic navigation instructions for the Guardian User Interface.

## Guardian User Interface

This section provides an overview and basic navigation instructions for the Guardian User Interface. For a complete, detailed description of all interface components, see [Chapter 3, “Reference.”](#) For detailed instructions for specific Guardian tasks, see [Chapter 2, “Tasks.”](#)

In general, you will use the Guardian User Interface to perform the majority of Guardian tasks and activities. For some highly repetitive or complex tasks—for example, activating multiple Guardian domains in multiple Guardian instances—you may want to create a [Guardian Command Line Interface \(CLI\)](#) script to automate a series of tasks. For basic instructions on using the CLI, see [Command Line Interface](#) in [Chapter 2, “Tasks.”](#) For a detailed description of all CLI commands, use, and syntax, see [Command Line Interface](#) of [Chapter 3, “Reference.”](#)

The sections below provide a description and basic navigation instructions for each of the following elements:

- [Main Menu Bar](#)
- [Main Toolbar](#)
- [Navigation Pane](#)
- [Document Pane](#)
- [Document View Titlebars](#)
- [Context Menus](#)
- [Wizards](#)

For a complete detailed description of the Guardian User Interface, see [Chapter 3, “Reference.”](#)

## Main Menu Bar

The Main Menu Bar is at the top of the Oracle Guardian main window just below the Oracle Guardian titlebar. The Menu Bar contains the following menus:

- [File Menu](#)
- [Tools Menu](#)
- [Window Menu](#)
- [Help Menu](#)

The Menu Bar menus in turn contain a series of options and submenus, some of which also lead to additional menus, dialog boxes, or wizards. The following sections provide an overview of each of these menus, and instructions for invoking them.

## Keyboard Shortcuts

You can invoke many menus, submenus, and menu options by using a keyboard shortcut. To display Menu Bar menus, press the **Alt** key and type the menu selection key for the menu you want to display. The menu selection key is the letter underlined in the menu name when you press the **Alt** key.

Some menu options also have keyboard shortcuts, which consist of a specific sequence of characters pressed simultaneously. If a menu item has a keyboard shortcut, the key sequence is listed next to the item in the menu. To see the complete list of keyboard shortcuts, press **Ctrl+Shift+L**.

## File Menu

[Table 1-1](#) describes the **File** menu options and submenus.

**Table 1-1 File Menu**

Menu Item	Description
<b>New &gt;</b>	This option opens a submenu with the following options: <ul style="list-style-type: none"> <li>• <b>Domain Group</b> — Open the <b>Add Domain Group</b> dialog box for creating a new Domain Group.</li> <li>• <b>Domain</b> — Open the <b>Domain Activation Wizard</b>.</li> <li>• <b>Inventory</b> — Open the <b>Inventory Wizard</b>.</li> <li>• <b>Evaluation</b> — Open the <b>Evaluation Wizard</b>.</li> <li>• <b>Shortcut</b> — Open the <b>Shortcut Wizard</b>.</li> </ul>
<b>Open File...</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application.
<b>Open</b>	Open the selected item. Select an item in the Navigation Pane, and then select <b>File &gt; Open</b> to display the contents for that item in the Document Pane.
<b>Close</b>	Close the current display in the Document Pane.
<b>Close All</b>	Close all Document Pane displays.
<b>Save As...</b>	Export the selected Domain Inventory or Evaluation as a file (PDF or HTML).



**Table 1-1 File Menu**

<b>Menu Item</b>	<b>Description</b>
<b>Print</b>	Print the contents of the <b>Report</b> tab or <b>Source</b> tab currently displayed in the Document Pane.
<b>Import</b>	Open the <b>Import</b> dialog box for importing Guardian Preferences, Workspace, or Report Plug-in.
<b>Export</b>	Open the <b>Export</b> dialog box for exporting Guardian Preferences, Workspace, or Report Plug-in.
<b>Exit</b>	Exit Guardian.

## Edit Menu

[Table 1-3](#) describes the **Edit** menu options.

**Table 1-2 Edit Menu**

Menu Item	Description
<b>Cut</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application. Use <b>Ctrl+X</b> for cut operations, where applicable.
<b>Paste</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application. Use <b>Ctrl+V</b> for paste operations, where applicable.

## Tools Menu

[Table 1-3](#) describes the **Tools** menu options and submenus.

**Table 1-3 Tools Menu**

Menu Item	Description
<b>Purge Inactive Domains</b>	Remove deactivated domains from the <b>Domain Explorer</b> and the Guardian Registry. This also removes from the Guardian Workspace any Domain Inventories, Evaluation Summaries, and Service Request Archives for those domains.
<b>Modify Domain</b>	Modify the selected domain. Opens the <b>Domain Properties</b> dialog box, where you can reconfigure the properties for the selected domain.
<b>Deactivate</b>	This opens the <b>Domain Deactivation Wizard</b> for the selected domain.
<b>View Log &gt;</b>	This opens a submenu with the following options: <ul style="list-style-type: none"><li>• <b>Signature Log</b> — Display the Guardian Signature log file.</li><li>• <b>Guardian Log</b> — Display the Guardian log file.</li></ul>

## Window Menu

Table 1-4 describes the **Window** menu options and submenus.

Table 1-4 Window Menu

Menu Item	Description
<b>Show View &gt;</b>	<p>This opens a submenu containing the following options:</p> <ul style="list-style-type: none"><li>• <b>Domain Explorer</b></li><li>• <b>Bundle Explorer</b></li><li>• <b>Shortcut Explorer</b></li><li>• <b>Signature Explorer</b></li><li>• <b>Active Domains Table</b></li><li>• <b>Shortcuts Table</b></li><li>• <b>Progress View</b></li><li>• <b>Outline View</b></li></ul> <p>Select an option to open that View.</p>
<b>Working Sets &gt;</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application.
<b>Reset Perspective</b>	Reset the Guardian displays to their default settings.
<b>Preferences...</b>	This opens the <b>Preferences</b> page.

## Help Menu

Table 1-5 describes the **Help** menu options and submenus.

**Table 1-5 Help Menu**

Menu Item	Description
<b>Help Contents</b>	This opens the Oracle Guardian Online Help System.
<b>Search</b>	This opens the Online Help <b>Search</b> utility.
<b>Dynamic Help</b>	This opens the Guardian Dynamic Online Help pane (to the right of the Document Pane).
<b>Cheat Sheet...</b>	This opens the <b>Cheat Sheet Selection</b> dialog box for selecting and displaying a Guardian Cheat Sheet (to the right of the Document Pane). The Cheat Sheet provides step-by-step instructions for basic Guardian tasks. Action buttons are provided for some tasks; click a button to initiate that task.
<b>Manage Guardian &gt;</b>	<p>This opens a submenu with the following options:</p> <ul style="list-style-type: none"> <li>• <b>Update Guardian</b> — Open the <b>Update Wizard</b>.</li> <li>• <b>Manage Configuration</b> — Open the <b>Product Configuration Manager</b> for performing the following tasks: <ul style="list-style-type: none"> <li>– <b>Scan for Updates</b></li> <li>– <b>View Installation History</b></li> <li>– <b>Show Activities</b></li> <li>– <b>Add an Extension Location</b></li> </ul> </li> </ul>
<b>Key Assist...</b>	Display the list of keyboard shortcuts.
<b>About Oracle Guardian</b>	Open the <b>About Oracle Guardian</b> dialog box. This displays the version of your current Guardian installation, and details about Guardian features, plug-ins, and configuration.

## Main Toolbar

The Main Toolbar is located below the Main Menu, and contains action buttons for the most common Guardian tasks. To identify a button, move your mouse pointer over the button; this displays the tool tip text for that button.

[Table 1-6](#) describes the Main Toolbar buttons.

**Table 1-6 Guardian Main Toolbar Buttons**

Button	Description
<b>Open</b>	Display the selected resource in the Document Pane. <ul style="list-style-type: none"> <li>• Opens the <b>Active Domain Table</b> when <b>Target Domains</b> is selected in the <b>Domain Explorer</b>.</li> <li>• Opens the <b>Domain Inventory</b> view when a Domain Inventory is selected in the <b>Domain Explorer</b>.</li> <li>• Opens the <b>Evaluation Summary</b> view when an Evaluation Summary is selected in the <b>Domain Explorer</b>.</li> <li>• Opens the <b>Signature</b> view when a signature is selected in the <b>Signature Explorer</b> or <b>Bundle Explorer</b>.</li> <li>• Opens the <b>Signature Bundle</b> view when a Bundle is selected in the <b>Bundle Explorer</b>.</li> <li>• Opens the <b>Evaluation Wizard</b> when a Shortcut is selected in the <b>Shortcut Explorer</b>.</li> </ul>
<b>Print</b>	Print the contents of the <b>Report</b> tab or <b>Source</b> tab currently displayed in the Document Pane.
<b>Activate</b>	Open the <b>Domain Activation Wizard</b> .
<b>Inventory</b>	Open the <b>Inventory Wizard</b> .
<b>Evaluate</b>	Open the <b>Evaluation Wizard</b> .
<b>Update</b>	Open the <b>Update Wizard</b> .

## Context Menus

Many views and displays contain context menus. Right-click on an item or anywhere in a display to open the associated context menu. For a complete description of context menus, see [Context Menus](#) in [Chapter 3, “Reference.”](#)

## Navigation Pane

The Navigation Pane resides in the left side of the Oracle Guardian main window. The Navigation Pane contains several tabs leading to Explorer Views. You can have multiple Views open at once, but only one can be displayed at a time. Click on a tab to display an Explorer view.

## Explorer Views

At the top of the Navigation Pane are the Explorer View tabs. Select a tab to display that View. [Table 1-7](#) provides an overview of the Navigation Pane Explorer Views.

**Table 1-7 Navigation Pane Explorer Tabs**

Explorer Tab	Description
<b>Domain Explorer</b>	Open the <b>Domain Explorer</b> . This View enables you to browse, manage, and monitor the domains you have defined in Guardian. Right-click in the <b>Domain Explorer</b> to open a context menu of domain operations. For a complete description, see <a href="#">Domain Explorer</a> in <a href="#">Chapter 3, “Reference.”</a> For instructions on <b>Domain Explorer</b> tasks, see <a href="#">Domains</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Signature Explorer</b>	Open the <b>Signature Explorer</b> . This View enables you to browse the available signatures and view the contents of a selected signature. For a complete description, see <a href="#">Signature Explorer</a> in <a href="#">Chapter 3, “Reference.”</a> For instructions on <b>Signature Explorer</b> tasks, see <a href="#">Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a>

**Table 1-7 Navigation Pane Explorer Tabs**









Explorer Tab	Description
<b>Bundle Explorer</b>	Open the <b>Bundle Explorer</b> . This View enables you to browse the available Signature Bundles and their contents. For a complete description, see <a href="#">Bundle Explorer</a> in <a href="#">Chapter 3, “Reference.”</a> For instructions on <b>Bundle Explorer</b> tasks, see <a href="#">Bundles</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Shortcut Explorer</b>	Open the <b>Shortcut Explorer</b> . This View enables you to view and manage your Evaluation Shortcuts. For a complete description, see <a href="#">Shortcut Explorer</a> in <a href="#">Chapter 3, “Reference.”</a> For instructions on <b>Shortcut Explorer</b> tasks, see <a href="#">Shortcuts</a> in <a href="#">Chapter 2, “Tasks.”</a>

For a detailed description of each of the Explorer views, see [Navigation Pane](#) of [Chapter 3, “Reference.”](#)

## Explorer Toolbar Icons

Below each Explorer titlebar is the Explorer toolbar. An Explorer toolbar may contain all or some of the following active icons:

Table 1-8 Explorer Toolbar Icons

Icon	Function
	Close
	Minimize
	Maximize
	Restore
	Expand all items.
	Collapse all items.
	Open Explorer menu.
	Link selected item with Editor.

## Explorer Toolbar Menus

The **Domain Explorer**, **Signature Explorer**, and **Bundle Explorer** each contain a Menu icon in the right corner of the toolbar. Click the Menu icon to display a menu of operations for that Explorer.

[Table 1-9](#) describes the Explorer menus.



Table 1-9 Explorer Menus

Explorer	Menu Options
<b>Domain Explorer</b>	<p>The <b>Domain Explorer</b> menu contains the following options:</p> <ul style="list-style-type: none"> <li>• <b>Filter Domain Explorer</b> — Open the <b>Filter Domain Explorer</b> dialog box to filter inventories and evaluations by date created.</li> <li>• <b>Link with Editor</b> — Link the Navigator Pane Tree to the Document Pane View. If you have multiple Document Views open in the Document Pane, the Explorer Tree tracks which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Explorer Tree.</li> </ul>
<b>Signature Explorer</b>	<p>The Signature Explorer menu contains the following options:</p> <ul style="list-style-type: none"> <li>• <b>Sort Signatures &gt;</b> — This opens a submenu of the following options for sorting signatures: <ul style="list-style-type: none"> <li>– <b>By Name</b></li> <li>– <b>By Severity</b></li> </ul> </li> <li>• <b>Filters...</b> — Open the <b>Filters</b> dialog box for filtering signatures in Signature Lists. For instructions, see <a href="#">Filter Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a></li> <li>• <b>Link with Editor</b> — Link the Navigator Pane Tree to the Document Pane View. If you have multiple Document Views open in the Document Pane, the Explorer Tree tracks which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Explorer Tree.</li> </ul>
<b>Bundle Explorer</b>	<ul style="list-style-type: none"> <li>• <b>Filters...</b> — Open the <b>Filters</b> dialog box for filtering signatures in Signature Lists. For instructions, see <a href="#">Filter Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a></li> <li>• <b>Sort Signatures &gt;</b> — This opens a submenu of the following options for sorting bundles and signatures in the <b>Bundle Explorer</b>: <ul style="list-style-type: none"> <li>– <b>By Bundle Name, Signature Name</b></li> <li>– <b>By Bundle Name, Severity</b></li> </ul> </li> <li>• <b>Link with Editor</b> — Link the Navigator Pane Tree to the Document Pane View. If you have multiple Document Views open in the Document Pane, the Explorer Tree tracks which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Explorer Tree.</li> </ul>

## Explorer Context Menus

Right-click in an Explorer View to display the context menu of tasks and operations you can perform from that View. You can also right-click on a specific item to select it and open the context menu for that item. Menu options that do not apply to your selection are deactivated (greyed out).

For a complete description, see [Explorer Context Menus](#) in [Chapter 3, “Reference.”](#)

## Document Pane

The Document Pane is located in the central portion of the Oracle Guardian main window. The Document Pane displays the Document Views.

## Document Views

[Table 1-10](#) describes the Guardian Views that can be displayed in the Documentation Pane.

**Table 1-10 Document Pane Views**

View	Description
<b>Active Domains Table</b>	<p>Select <b>Window &gt; Show View &gt; Active Domains Table</b> to display this View. This contains a table of all of the domains currently activated in Guardian, and action buttons for the following tasks:</p> <ul style="list-style-type: none"> <li>• <b>Open Admin Console</b> — Open an instance of the WebLogic Server Administration Console.</li> <li>• <b>Modify Domain</b> — Open the <b>Domain Properties</b> configuration page for the selected domain.</li> <li>• <b>Deactivate Domain</b> — Open the <b>Domain Deactivation Wizard</b> for the selected domain(s).</li> </ul>
<b>Domain Inventory</b>	<p>Double-click on a Domain Inventory entry in the <b>Inventory History</b> folder in the <b>Domain Explorer</b> to display the Inventory Details for that inventory. The inventory includes descriptions of your servers, Java Virtual Machines, operating systems, databases, product versions, and certain configuration settings. The Domain Inventory View contains the following tabs:</p> <ul style="list-style-type: none"> <li>• <b>Overview</b> — Display the <b>Domain Inventory Overview</b> for this Inventory.</li> <li>• <b>Source</b> — Display the XML source for the Inventory.</li> <li>• <b>Report</b> — Display the Domain Inventory report for this inventory.</li> </ul>

Table 1-10 Document Pane Views

View	Description
<b>Evaluation Summary View</b>	Double-click on an Evaluation Summary entry in the <b>Evaluation History</b> folder in the <b>Domain Explorer</b> to display that Evaluation Summary. This contains a table of all detected signatures for the evaluated domain. Select a signature in the list to display the signature <b>Description</b> and <b>Remedy</b> details for that signature.
<b>Shortcuts Table</b>	Select <b>Window &gt; Show View &gt; Shortcuts Table</b> to display this View. This contains a table of all of your Shortcuts, and action buttons for the following tasks: <ul style="list-style-type: none"> <li>• <b>Add Shortcut</b> — Open the <b>Shortcut Wizard</b> for creating Shortcuts.</li> <li>• <b>Delete Shortcut</b> — Delete the selected Shortcut. A <b>Confirm Delete</b> dialog box prompts you to confirm the delete operation. Click <b>OK</b> to delete the Shortcut.</li> </ul>
<b>Signature View</b>	Double-click on a signature entry in the <b>Signature Explorer</b> or <b>Bundle Explorer</b> . This View contains the following tabs: <ul style="list-style-type: none"> <li>• <b>Overview</b> — Display the <b>Signature Overview</b> for the signature.</li> <li>• <b>Source</b> — Display the XML source for the signature.</li> <li>• <b>Report</b> — Display the Signature Report for that signature.</li> </ul>
<b>Signature Bundle View</b>	Double-click on a Bundle node in the <b>Bundle Explorer</b> . This View provides a description and some additional details about the selected Bundle. Also included is the Signature Definition for the Bundle.

**Note:** You can have multiple Views open in the Document Pane, but only one can be active at a time.

## Document View Titlebars

Each View has a titlebar that contains the name of the View, an identity icon, and buttons to close, minimize, maximize, and restore the display.

You can also use Document View titlebars to group multiple Views together on a titlebar as a tab group. Tab groups can be moved together as a unit, using either the **System Menu > Move** menu option or drop cursors. You can also move Views by dragging their titlebars to different locations.

For a complete description of titlebar features, see [Document View Titlebars](#) in [Chapter 3](#), “Reference.”

## Document Pane View Context Menus

Each tab page for a View has a context menu specific to the tab contents. Some context menus—for example, **Edit** menus—may be available only for certain items within that View. To open a context menu, right-click on an item in that View.

## Wizards

Oracle Guardian provides the several wizards for guiding you through some of the more complex or common Guardian tasks.

[Table 1-11](#) describes the Guardian wizards and how to invoke them.

**Table 1-11 Guardian Wizards**

Menu Item	Description
<b>Annotations Wizard</b>	Right-click on a signature title in the Signature Explorer or Bundle Explorer and select Annotations from the context menu. This opens a submenu with a single option, <b>Manage Annotations</b> . Select this to open the <b>Annotations Wizard</b> . This contains fields and options for annotating the selected signature. For details, see <a href="#">Annotations Wizard</a> in <a href="#">Chapter 3, "Reference."</a> For instructions on using this wizard, see <a href="#">Signature Annotations</a> in <a href="#">Chapter 2, "Tasks."</a>
<b>Bundle Evaluation Wizard</b>	Right-click in the Domain Explorer and select <b>Evaluate Bundle</b> from the context menu. This opens a submenu listing the Bundles available for evaluation. Select a Bundle to open the <b>Bundle Evaluation Wizard</b> for that Bundle. For details, see <a href="#">Bundle Evaluation Wizard</a> in <a href="#">Chapter 3, "Reference."</a> For instructions on using this wizard, see <a href="#">Evaluate Bundles</a> in <a href="#">Chapter 2, "Tasks."</a>
<b>Domain Activation Wizard</b>	This contains fields and options for configuring and activating a domain in Guardian. Click <b>Activate</b> to open the <b>Domain Activation Wizard</b> . For details, see <a href="#">Domain Activation Wizard</a> in <a href="#">Chapter 3, "Reference."</a> For instructions on using this wizard, see <a href="#">Activate Domain</a> in <a href="#">Chapter 2, "Tasks."</a>
<b>Domain Deactivation Wizard</b>	In <b>Domain Explorer</b> , right-click on a domain entry and select <b>Deactivate Domain</b> from the context menu to open this wizard. This contains a table of all active domains. For details, see <a href="#">Domain Deactivation Wizard</a> . For instructions on using this wizard, see <a href="#">Deactivate Domain</a> in <a href="#">Chapter 2, "Tasks."</a>
<b>Evaluation Wizard</b>	Click <b>Evaluate</b> to open the <b>Evaluation Wizard</b> for evaluating one or more domains. For details, see <a href="#">Evaluation Wizard</a> in <a href="#">Chapter 3, "Reference."</a> For instructions on using this wizard, see <a href="#">Evaluate Domain</a> in <a href="#">Chapter 2, "Tasks."</a>

**Table 1-11 Guardian Wizards**

Menu Item	Description
<b>Filters Wizard</b>	Click the <b>Signature Explorer</b> menu icon and select the <b>Filters</b> menu option. The <b>Filters Wizard</b> enables you to specify which signatures to display in Signature Lists. For details, see <a href="#">Filters Wizard</a> in <a href="#">Chapter 3, “Reference.”</a> For instructions on using this wizard, see <a href="#">Filter Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Inventory Wizard</b>	Click <b>Inventory</b> to open the <b>Inventory Wizard</b> . A Domain Inventory is a snapshot of all of the configuration details for a domain as it exists at that moment. For details, see <a href="#">Inventory Wizard</a> in <a href="#">Chapter 3, “Reference.”</a> For instructions on using this wizard, see <a href="#">Inventory Domain</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Shortcut Wizard</b>	Select <b>File &gt; New &gt; Shortcut</b> to open the <b>Shortcut Wizard</b> for creating and modifying Shortcuts. For details, see <a href="#">Shortcut Wizard</a> in <a href="#">Chapter 3, “Reference.”</a> For instructions on using this wizard, see <a href="#">Create Shortcut</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Shortcut Evaluation Wizard</b>	Click the <b>Shortcut Explorer</b> tab to open the <b>Shortcut Explorer</b> . Then, double-click on a Shortcut name in the Shortcut list to open the <b>Shortcut Evaluation Wizard</b> . For details, see <a href="#">Shortcut Evaluation Wizard</a> in <a href="#">Chapter 3, “Reference.”</a> For instructions on using this wizard, see <a href="#">Evaluate Shortcut</a> in <a href="#">Chapter 2, “Tasks.”</a>

**Table 1-11 Guardian Wizards**

Menu Item	Description
<b>Service Request Wizard</b>	Select a signature in an Evaluation Summary and click <b>Get more help from Oracle Support</b> . This opens the <b>Service Request Wizard</b> for the selected signature. This enables you to create a service request based on the selected signature. For details, see <a href="#">Service Request Wizard</a> in <a href="#">Chapter 3, “Reference.”</a> For instructions on using this wizard, see <a href="#">Creating a Service Request Archive</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Update Wizard</b>	<p>Click <b>Update</b> to open the <b>Update Wizard</b>. This wizard enables you to automatically download new Oracle Guardian software and signatures from the Oracle Guardian update site. For details, see <a href="#">Update Wizard</a> in <a href="#">Chapter 3, “Reference.”</a> For instructions on using this wizard, see <a href="#">Automatically Update Guardian</a> in <a href="#">Chapter 2, “Tasks.”</a></p> <p><b>WARNING:</b> Upgrading from Guardian 1.0.x to Guardian 1.1 must be done manually. For instructions, see <a href="#">Manually Update Guardian</a> and <a href="#">Manually Update Guardian Registry</a> in <a href="#">Chapter 2, “Tasks.”</a></p> <p>You <i>can</i> use the <b>Update Wizard</b> to automatically update Guardian when updating from Guardian 1.1.x to Guardian 10g R3 (10.3.0.0). You do not have to update manually in this case.</p>

For a detailed description of each of the Guardian Wizards, see [Wizards](#) of [Chapter 3, “Reference.”](#)

## Wizard Titlebar Menus

Right-click a wizard titlebar to open a context menu of options to **Move**, **Size**, or **Close** the wizard. You can also move or resize a Wizard by dragging the titlebar or window borders.

## Guardian Online Help System

The Guardian Online Help system has the following structure:

- **About Oracle Guardian** — This section provides an overview of Guardian components, features, and key concepts. Also provided are basic instructions for using and navigating the Guardian User Interface and Online Help System.
- **Tasks** — This section provides detailed instructions for Guardian tasks and procedures. Tasks are categorized according to the component or feature to which they apply. The Tasks Help folder contains a number of subfolders, one for each task category. Expand a category folder to see the tasks relating to that topic.
- **Reference** — This section provides a detailed description of the Guardian User Interface components and features, and a detailed reference guide to the Guardian Command Line Interface.

## Guardian Command Line Interface

The Guardian Command Line Interface is a command interpreter that is an executable `.cmd` batch file for Windows, and a `.sh` shell script for Linux. Both the Windows batch file and the Linux shell script are wrappers that accumulate and organize arguments to the `Java` command. You can invoke the Command Line Interface from a Windows Command Prompt window or a Linux terminal window.

For basic instructions on using the CLI, see [Command Line Interface](#) on [Chapter 2, “Tasks.”](#) For a detailed description of all CLI commands, use, and syntax, see [Command Line Interface](#) of [Chapter 3, “Reference.”](#)



# Key Concepts

This section provides an overview of Guardian components, features, and key concepts. These include:

- [Guardian Agent](#)
- [Guardian Workspace](#)
- [Guardian Registry](#)
- [Domain](#)
- [Domain Nodes](#)
- [Domain Groups](#)
- [Domain Inventory](#)
- [Signature](#)
- [Signature Bundle](#)
- [Signature Annotations](#)
- [Evaluation](#)
- [Snapshot Evaluation](#)
- [Evaluation Summary](#)
- [Signature Repository](#)
- [Shortcut](#)
- [Support Service Request](#)

## Guardian Agent

The Guardian Agent is a lightweight web application that gathers the data used for evaluations.

The Guardian Agent collects the following data:

- JMX data
- Java system properties
- Database metadata for your JDBC connection pools
- J2EE Deployment Descriptors from WebLogic instances
- JRockit JMAPI data
- JRockit Runtime Analyzer data
- JRockit thread dump data

## Multiple Guardian Agent Threads

If you have one or more managed servers in a domain, the Guardian Agent spawns the appropriate number of threads for communicating between the Guardian Agent on the WebLogic Administration Server, and the Guardian Agent running on the Managed Server(s).

An excessive number of threads can affect the performance of the Administration Server, so Guardian enables you to specify the maximum number of Agent threads that can be spawned. In addition, in order to manage Agent resources on both the Administration and Managed Servers, you can specify the maximum amount of time (in seconds) that can elapse before a thread is terminated. For instructions, see [Configure Maximum Agent Threads](#) and [Configure Agent Thread Timeout](#) in [Chapter 2, “Tasks.”](#)

## Guardian Workspace

The Guardian Workspace is the directory in which all of your Guardian data is stored. It includes the following data for each domain you have defined in Guardian:

- Preferences
- Domain Inventories
- Evaluation Summaries

When you invoke Guardian, you are prompted to select a location for your Guardian Workspace. To prevent loss of work when Guardian is updated or uninstalled, select a Workspace location outside of the Guardian installation directory (see [Select Workspace](#)). You can also safely back up your Workspace data by exporting your Workspace to a file also located outside of your Guardian Installation directory. For instructions, see [Export Workspace](#) of [Chapter 1, “About Oracle Guardian.”](#)

Although the documents in the Guardian Workspace are persisted as XML files, they are best viewed through the [Guardian User Interface](#). The Guardian User Interface provides a number of tools for viewing, managing, and processing your data, as well as better protection against unintended edits or deletions. For basic instructions on using the interface, see [Guardian User Interface](#). For a detailed description of Guardian User Interface components and features, see [Chapter 3, “Reference.”](#) See [Chapter 2, “Tasks,”](#) for detailed instructions for using the interface to perform specific Guardian tasks.

## Guardian Registry

The Guardian Registry is an XML document in which your Oracle Guardian configuration specifications are maintained. The Guardian Registry is created during product installation, and updated whenever you modify your configuration or perform certain Guardian operations. The Guardian Registry identifies the domains you have activated, the Signature Bundles available for evaluation, the Shortcuts you have defined, and your Guardian Workspace location(s).

## Domain

A domain is a logically related group of WebLogic Server resources that are managed as a unit. A domain always includes at least one WebLogic Server instance called the Administration Server. The Administration Server acts as a central point of contact for server instances and system administration tools. A domain may also include additional WebLogic Server instances called Managed Servers.

Each Oracle Guardian installation maintains a [Guardian Registry](#) of active domains. A domain is considered active when it is capable of being evaluated. You can activate and deactivate domains at will, and select which to evaluate at any given time.

## Domain Nodes

A *domain node* represents a domain that has been defined in Guardian. When you activate a domain for the first time in Guardian, a node for the new domain is added to the **Target Domains** folder in the **Domain Explorer** tree. A unique name is automatically generated for the new domain, based upon your entries in the Domain Activation Wizard.

**Note:** In the Command Line Interface, the domain node name is referred to as the *domainId* for the domain.

The Domain Explorer displays only the active domain nodes. An active domain is a domain that has been activated (defined for evaluation) in Guardian. This does not refer to the state of the domain servers. If you deactivate a domain in Guardian, that domain is removed from the Domain Explorer tree. However, if you reactivate the domain, the node for that domain is again displayed, and the original contents of the History folders are also again available. Deactivating a domain does not remove the Workspace data for that domain.

For more information, see [“Domain Nodes” on page 3-111](#) in [Reference](#).

## Domain Groups

You can organize the domains in Guardian into Domain Groups for easier management. For instructions on creating and managing Domain Groups, see [Domain Groups](#) in [Chapter 2, “Tasks.”](#)

## Domain Inventory

A Domain Inventory is an XML document that describes the products in a Guardian domain. The inventory includes descriptions of your servers, Java Virtual Machines, operating systems, and databases. The descriptions include product versions as well as some configuration settings.

A Domain Inventory is created when you activate or evaluate a domain. The **Inventory History** is also refreshed each time a domain is evaluated. You can use the **Domain Inventory Wizard** in the Guardian User Interface to define and generate a new Domain Inventory.

Domain Inventory files are stored and maintained in your Guardian Workspace. You can use the **Domain Explorer** in the Guardian User Interface to view and manage Domain Inventories.

## Signature

Oracle Support has identified patterns in user domains that can cause problems. These patterns are described in XML documents called *signatures*.

Signatures describe potential problems based on information about your Oracle WebLogic Servers and the environment in which they are deployed, including Java Virtual Machines (JVMs), operating systems, and databases. Signatures contain executable logic that can identify specific versions of these products as well as their configuration settings.

In addition to the potential problem description, signatures also contain a remedy recommendation and a severity level: 1-Critical, 2-Warning, or 3-Info.

To detect which signatures apply to your domain, you conduct an evaluation. When the evaluation is complete, the results are displayed in an Evaluation Summary. The Evaluation Summary lists all of the detected signatures, along with the severity level, description, and recommended remedy for each.

Signatures form a primary component of Oracle Guardian, since they contain the distilled knowledge of Oracle Support for both detecting potential problems and resolving them.

## Signature Bundle

A Signature Bundle is a group of signatures that are evaluated together against one or more specified domains. Signatures are grouped into bundles based on their characteristics. For example, the *Security Advisories* bundle contains signatures that detect potential security problems for which Oracle has issued Security Advisories. The *Service Pack Remedy* bundle contains signatures whose resolution requires installation of a specific service pack.

You can select which bundle to evaluate against which domain(s). Bundles determine the signatures—and consequently, the potential issues—for which to search. The domain(s) you specify determine where to search.

You can use the **Bundle Explorer** Navigator view to browse the available Signature Bundles and their contents.

For details, see [Bundle Explorer](#) in [Chapter 3, “Reference.”](#) For instructions on using Bundles, see [Bundles](#) in [Chapter 2, “Tasks.”](#)

## Signature Annotations

Signature Annotations enable you to tag a detected signature with one or more persistent annotations about that signature.

An annotation contains the following information:

- **Type** — This indicates the Annotation Type. There are two types: **Ignore** and **Flag**.
- **Name** — (Optional) This is a text field into which you can enter a short name for this annotation.
- **Comment** — This is a text field into which you can enter comments or other notes about the signature.
- **Timestamp** — This records the date and time the annotation was created.
- **Domains** — This specifies the Annotation Target for this annotation for this signature. This can be **All Domains**, **This Domain**, or **This Evaluation**.
- **Evaluations** — (Automatic) This specifies the Evaluation(s) to which this annotation applies for this signature.

You can use the **Annotations Wizard** to create, edit, and delete annotations. For details, see [Annotations Wizard](#) in [Chapter 3, “Reference.”](#) For instructions, see [Signature Annotations](#) in [Chapter 2, “Tasks.”](#)

**In addition**, you can use Signature Filters to specify which annotated signatures are to be displayed in the **Signature Explorer**, **Bundle Explorer**, and Evaluation Summaries. For instructions, see [Filter Annotated Signatures](#) in Chapter 2, “Tasks.” For complete instructions on using filters, see [Filter Signatures](#) in Chapter 2, “Tasks.”

## Evaluation

To detect which signatures apply to your domain, you conduct an evaluation. When the evaluation is complete, the results are displayed in an Evaluation Summary. The Evaluation Summary lists all of the detected signatures, along with the severity level, description, and recommended remedy for each.

## Snapshot Evaluation

A Snapshot Evaluation is a complete assessment of all of the configuration details for a specific domain, at the particular moment the evaluation is executed.

You can compare two Snapshot Evaluations to see very quickly the differences between configurations for two domains, or the same domain at different points in its history. For instructions, see [Compare Inventories or Evaluations](#) of Chapter 2, “Tasks.”

## Evaluation Summary

The results of an evaluation are displayed in an Evaluation Summary. The Evaluation Summary lists all of the signatures from the specified bundle that were detected for the evaluated domain, along with the severity level, description, and recommended remedy for each signature.

## Signature Repository

The Signature Repository contains the locally persisted store of signatures available for evaluation. When you download signatures from the Guardian update site, they arrive in a Java Archive (JAR) file. The JAR file is stored in the `repository/archives` directory of your Guardian installation directory.

## Shortcut

A Shortcut enables you to streamline the evaluation procedure by predefining and storing the domain, Signature Bundle, and other parameters for evaluations that you perform frequently. You can then evaluate the Shortcut, saving you the effort of re-entering the parameter values each time you want to run the evaluation.

## Support Service Request

A support service request is a record created when you submit technical questions or issues to Oracle Support. Customers with a support contract can open a service request on the Oracle eSupport website or by calling Oracle Customer Support.

Guardian enables you to open a Oracle Customer Service Request directly from a Guardian evaluation. When you conduct an evaluation that detects a signature, you can create a service request directly from a selected signature in an Evaluation Summary. Guardian creates and saves the service request data as a *Service Request Archive* for later submission to Oracle Support. Service Request Archives include all of the information from the signature and are stored as files with the file name extension `.car`. This enables a Oracle support engineer to begin working on your service request upon receipt of the archive. You can also add any additional attachments and notes before sending the service request archives to Oracle.

To learn more about Oracle Support and service requests, see the Oracle *Customer Support Guidebook*, which you can download from the Oracle Customer Support website.

## Security

### Authentication

To safeguard your domains, Guardian requires valid login credentials for all communications between Guardian and your Guardian domains. Whenever you conduct an evaluation or activate a domain, Guardian prompts you for the username and password of an Administrator or Monitor account on the target domain. You can choose to store the username and password so you do not have to enter them for every evaluation. All usernames, passwords, and server names persisted on disk are encrypted.



## Data Encryption

Any passwords, usernames, or server names persisted on disk are encrypted. This encryption helps prevent the disclosure of any clear text data that could compromise the security of your domain. SSL encryption is available for communication between Guardian and your domains and between Guardian and Oracle. Guardian uses 128 bit open source encryption for SSL. However, the configuration on the server for the domain determines whether or not Guardian will use 128 bit SSL encryption when activating that domain.

**Note:** Oracle recommends using SSL encryption for communication between the client and the Guardian Agent.

## Secure Transmission

Secure Sockets Layer (SSL) encryption is available for all communication with Oracle over the Internet, and all communication with Guardian Agents in your target domain(s).

**Note:** Oracle recommends using SSL encryption for communication between the client and the Guardian Agent. Guardian uses 128 bit open source encryption for SSL. However, the configuration on the server for the domain determines whether or not Guardian will use 128 bit SSL encryption when activating that domain.

If you want to use SSL, there are three types of communication to consider:

- **Target domain communication** - To use SSL encryption for communications between Oracle Guardian and your target domain(s), select the **https://** communications protocol option in the **Domain Activation Wizard**. For instructions, see [Activate Domain](#) of [Chapter 2, “Tasks.”](#)
- **Signature downloads** - To use SSL encryption when downloading signatures from Oracle Support, select **Require SSL** in the Guardian **Preferences** page. This will also set SSL encryption for uploading signature usage statistics (see [Privacy](#)). For instructions on configuring your Guardian preferences, see [Preferences](#) of [Chapter 2, “Tasks.”](#)

## Privacy

When you download signatures into Guardian from Oracle Support, Oracle collects high level statistics about your signature usage, including the number of times each signature was evaluated and detected. *No customer data is included in the usage statistics.* This information is used only in aggregate to assess the effectiveness of each signature. This data is crucial to the continuous improvement of Oracle Guardian.

The signature usage statistics contain the following information:

- **signature id** — This is the unique identifier for the signature.
- **type** — This is the category of the signature.
- **fired** — This is the number of times the signature was considered for use. This also includes the number of times the signature was disqualified before evaluation due to targeting products not present on the domain.
- **evaluated** — This is the number of times the signature was actually compared against the target domain.
- **detected** — This is the number of times the signature was actually found on the target domain

The following is a sample signature usage statistic:

```
<?xml version="1.0" encoding="UTF-8"?>
<usage>
<signature id="123456.sig" type="Evaluation" fired="30" evaluated="18"
detected="2" />
<signature id="234567.sig" type="Evaluation" fired="30" evaluated="20"
detected="1" />
</usage>
```

## Key Tasks

There are many ways to configure and use Guardian to diagnose the health of your domains. However, there are four essential tasks that can be considered the primary functions of Guardian. These are as follows:

- [Activate Domain](#)
- [Inventory Domain](#)
- [Evaluate Domain](#)
- [Update Guardian](#)

The following sections provide a brief description of each of these tasks. For a complete description of all Guardian tasks and procedures, see [Chapter 2, “Tasks.”](#)

### Activate Domain

Activating a domain prepares the domain for evaluation and conducts an initial inventory of the domain configuration.

To activate a domain, use the **Domain Activation Wizard**. For instructions, see [Activate Domain](#) of [Chapter 2, “Tasks.”](#)

### Inventory Domain

A Domain Inventory is a snapshot of all of the configuration details for a domain as it exists at that moment. The results are displayed in a **Domain Inventory Overview** in the Document Pane. The inventory is also added to the **Inventory History** folder in the **Domain Explorer**. Domain Inventories are also generated automatically whenever you activate or evaluate domains.

To inventory a domain, use the **Inventory Wizard**. For instructions, see [Inventory Domain](#) of [Chapter 2, “Tasks.”](#)

## Evaluate Domain

To detect which signatures apply to your domain, you conduct an evaluation. Guardian collects data about your domain environment, and identifies which signatures apply to the domain. When the evaluation is complete, the results are displayed in an Evaluation Summary. The Evaluation Summary lists all of the detected signatures, along with the severity level, description, and recommended remedy for each.

You can review the Evaluation Summary to determine your response to any signatures that are detected. If you need more help resolving the potential problem identified by the signature, you can use Guardian to create an Oracle service request archive.

For instructions on conducting evaluations, see [Evaluate Domain](#) of [Chapter 2, “Tasks.”](#)

## Update Guardian

Oracle Support Engineers create new signatures every day, and new application enhancements to Guardian are also periodically released. The Guardian **Update** feature enables Guardian to connect directly to the Guardian Update site to automatically download and install new signatures and product updates. To update Guardian on servers that do not have Internet access, you can perform a manual update.

For instructions for performing both automatic and manual updates, see [Updates and Upgrades](#) of [Chapter 2, “Tasks.”](#)

## Example Scenarios

The following scenarios are examples of some of the different ways you can use Guardian to find problems before they impact your environment.

### Scenario 1: Development Cycle Evaluations

As you develop an application and migrate from development to quality assurance to production, you can run an evaluation at each stage. Guardian will help ensure that each phase of your development process is compliant with Oracle best practices.

### Scenario 2: Heavy Load Evaluations

Some signatures are designed to evaluate runtime domain settings. Running an evaluation under heavy load can detect potential problems that would not otherwise be detected. Oracle recommends conducting these evaluations during load and performance testing.

### Scenario 3: Application Update Evaluations

After you update an existing application, you can run an evaluation to assess the deployment. Guardian will help you find any potential problems that could impact your upgrade.

### Scenario 4: Vendor Software Update Evaluations

After you install a new Oracle patch, service pack, or upgrade, or install or upgrade third party software, you can run an evaluation to identify any new issues that may have been introduced.

### Scenario 5: Post Repair Evaluations

If Guardian earlier detected a signature, and you subsequently applied the remedy or made other changes to your system, you can run an evaluation to confirm that the signature is no longer detected and no new issues were introduced.

### Scenario 6: Post Domain Change Evaluations

If you made changes to your domain configuration or settings, you can run an evaluation to confirm that the result is compliant with Oracle best practices.

## **Scenario 7: Scheduled Overnight Evaluations**

If you are concerned about domain settings being incorrectly changed overnight, or your domain is approaching certain resource limits, you can schedule evaluations to run overnight. You can review the Evaluation Summary in the morning and decide if any detected signatures merit further investigation.

## **Scenario 8: Heartbeat Evaluations**

Guardian evaluations are designed to have as minimal an impact on throughput and CPU usage as possible. If your domain has extra capacity, you can schedule Guardian to run evaluations at regular intervals; for example, every 15 minutes. Then, if any changes are made or certain thresholds are reached, you can be notified quickly.

## **Scenario 9: Diagnostic Evaluations**

If you notice a problem on your domain, you can run an evaluation. Even if an earlier evaluation detected no signatures, something may have changed since that time to cause the new problem. Guardian can be your first line of defense in diagnosing and repairing domain problems.

# Supported Targets

Supported Targets are the environments that Oracle Guardian can target for evaluations.

Basically, Guardian can target any platform for evaluation that allows it to install and communicate with the Guardian Agent. In addition, the Guardian Agent itself must have access to a specific set of Java system information properties and methods. The Oracle products capable of supporting these operations are based on WebLogic Server versions 8.1 and above.

The following Oracle product versions are supported:

**Note:** For the most current information on Supported Oracle product versions, please see the [Oracle Guardian Installation Guide](#).

**Table 1-12 Supported Oracle Product Versions**

Oracle Product	Versions
AquaLogic Data Services Platform	2.0 and above
AquaLogic Service Bus	2.1 and above
Oracle JRockit JDK	Java Version 5 (Version 1.5) and above
WebLogic Communications Platform SIP Server	3.0 and above
WebLogic Integration	8.1 and above
WebLogic Platform	8.1 and above
WebLogic Portal	8.1 and above
WebLogic RFID Enterprise Server	1.1 2.0
WebLogic Server	8.1 and above
WebLogic Virtual Edition	1.1

## About Oracle Guardian



# Tasks

This chapter provides detailed instructions for using and managing the following Guardian features and components:

- [Basic Tasks](#)
- [Guardian Agent](#)
- [Workspaces](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Proxy Servers](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Shortcuts](#)
- [Command Line Interface](#)

- [Troubleshooting](#)
- [Support](#)
- [Updates and Upgrades](#)

## Basic Tasks

There are many ways to configure and use Guardian to diagnose the health of your domains. However, there are four essential tasks that can be considered the primary functions of Guardian. These are as follows:

- [Activate Domain](#) — Activating a domain prepares the domain for evaluation and conducts an initial inventory of the domain configuration. To activate a domain, use the **Domain Activation Wizard**. For instructions, see [Activate Domain](#).
- [Inventory Domain](#) — A Domain Inventory is an assessment of your current domain environment. The results are displayed in a **Domain Inventory Overview** in the Document Pane. The inventory is also added to the **Inventory History** folder in the Domain Explorer. Domain Inventories are also created automatically whenever you activate or evaluate domains. To inventory a domain, use the **Inventory Wizard**. For instructions, see [Inventory Domain](#).
- [Evaluate Domain](#) — To detect which signatures apply to your domain, you conduct an evaluation. Guardian collects data about your domain environment, and identifies which signatures apply to the domain. When the evaluation is complete, the results are displayed in an **Evaluation Summary** in the Document Pane. The **Evaluation Summary** lists all of the detected signatures, along with the severity level, description, and recommended remedy for each. You can review the **Evaluation Summary** to determine your response to any signatures that are detected. If you need more help resolving the potential problem the signature identified, you can use Guardian to create and submit an Oracle service request. For instructions on conducting evaluations, see [Evaluate Domain](#).
- [Updates and Upgrades](#) — Oracle Support Engineers create new signatures every day, and application enhancements to Guardian are also periodically released. The Guardian **Update** feature enables Guardian to connect directly to the Guardian Update Site to automatically download and install new signatures and product updates. To update Guardian on servers without Internet access, you can perform a manual update. For instructions for performing both automatic and manual updates, see [Updates and Upgrades](#).

There are numerous other Guardian tasks and activities, which are categorized according to the following topics:

- [Guardian Agent](#)
- [Workspaces](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Proxy Servers](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Shortcuts](#)
- [Command Line Interface](#)
- [Troubleshooting](#)
- [Support](#)
- [Updates and Upgrades](#)

The following sections provide detailed instructions for performing the tasks in each of these categories.

## Guardian Agent

This section provides instructions for the following tasks:

- [Manually Deploy the Guardian Agent](#)
  - [Deploy Guardian Agent from WebLogic Server Administration Console](#)
  - [Deploy Guardian Agent to Multiple Servers](#)
- [Configure Maximum Agent Threads](#)
- [Configure Agent Thread Timeout](#)

### Manually Deploy the Guardian Agent

If you upgrade *from* a Guardian version earlier than 1.0.7 *to* a Guardian version of 1.0.7 or above, you may not be unable to activate domains until you manually deploy the new Guardian Agent in the WebLogic Server. To do this, you must first undeploy the old Guardian Agent, and then deploy and start the new Agent.

**Note:** If you are using WebLogic Server 10.3, the Guardian Agent is already installed and ready for on-demand deployment. To enable the deployment, open the WebLogic Server Administration Console and select **Domain > Configuration > General > Enable Oracle Guardian Agent**. For complete instructions, see the WebLogic Server Administration Console online help.

You can use the WebLogic Server Administration Console to uninstall the existing Guardian Agent and then install and deploy the new Agent. The WebLogic Server Administration Console provides a series of Web-based deployment assistants that guide you through the deployment process. For basic instructions, see [Deploy Guardian Agent from WebLogic Server Administration Console](#). For complete instructions on deploying applications, see the Administration Console Online Help, and WebLogic Server documentation.

If you want to deploy the Guardian Agent to multiple servers, you can use a WebLogic Scripting Tool to automate this task. For basic instructions, see [Deploy Guardian Agent to Multiple Servers](#). For instructions on using a script to activate multiple domains in Guardian, see [Activate Multiple Domains](#). For complete instructions on using the WebLogic Scripting tool to deploy applications, see the WebLogic Scripting Tool documentation.

## Deploy Guardian Agent from WebLogic Server Administration Console

You can use the WebLogic Server Administration Console to manually deploy the Guardian Agent on that server. This section provides a summary of the basic steps involved for WebLogic Server versions 9.0 and above. For complete instructions for your specific version of WebLogic Server, please see your WebLogic Server documentation and Administration Console Online Help. Please also refer to the *Guardian 1.1 Installation Guide* and *Guardian 1.1 Release Notes* for additional important information.

To use the Administration Console to manually deploy the Guardian Agent, do the following:

1. Start the WebLogic Administration Console, and select **Lock & Edit** in the left pane.

**Caution:** Make sure that **Lock & Edit** is selected for each of the following procedures.

2. Stop the existing Guardian Agent deployment in the WebLogic Server.

By default, the Guardian Agent is named `bea-guardian-agent.war`.

**Note:** For detailed instructions for this procedure, see “Start and stop a deployed Enterprise Application” in the WebLogic Administration Console Online Help.

3. Delete the existing Guardian Agent deployment from the WebLogic Server, and activate your changes.

**Note:** For detailed instructions for this procedure, see “Delete an Enterprise Application” in the WebLogic Administration Console Online Help.

4. Install the new Guardian Agent in the WebLogic Server, and activate your changes.

The Guardian Agent is a WAR file named `bea-guardian-agent.war`, and is located in the following directory:

**WARNING:** Do not change the name of the Guardian Agent when deploying it. Be sure to use the default name, `bea-guardian-agent.war`.

```
<root>\guardian\plugins\com.bea.guardian.agent.weblogic_<guard-version>
\weblogic<wls-version>
```

Where:

`<root>` is the parent directory for the Guardian installation. For example:  
`C:\Program Files`

`<guard-version>` is the current (updated) Guardian version.

`<wls-version>` is the version of WebLogic Server in which you are deploying this Agent.

If you are installing the Agent on WebLogic 8.1.x, install the `bea-guardian-agent.war` file located in the `..\weblogic8` directory. For WebLogic Server 9.x and 10.x, install the `bea-guardian-agent.war` file located in the `..\weblogic9` directory.

**Note:** For detailed instructions for this procedure, see the section entitled, “Install an Enterprise Application” in the Administration Console Online Help.

5. Start the new Guardian Agent in the WebLogic Server.

**Note:** For detailed instructions for this procedure, see “Start and stop a deployed Enterprise Application” in the WebLogic Administration Console Online Help.

6. Start Guardian and activate the necessary domains in Guardian.

**Note:** For detailed instructions for this procedure, see “Activate Domain” in the Oracle Guardian Online Help.

You can now use Guardian to evaluate the activated domains in your environment.

## Deploy Guardian Agent to Multiple Servers

If you need to deploy the Guardian Agent to multiple servers in a cluster environment, you can use the `weblogic.Deployer` command in the WebLogic Server Command Line Interface to automate this task. You can also use the Oracle WebLogic Scripting Tool (WLST) to deploy the Agent. This section provides basic instructions for using the `weblogic.Deployer` command for this purpose. For instructions on using WLST, please see the WebLogic Scripting Tool product documentation.

**Note:** Please also refer to the *Guardian 1.1 Installation Guide* and *Guardian 1.1 Release Notes* for additional important information.

**WARNING:** Do not change the name of the Guardian Agent when deploying it. Be sure to use the default name, `bea-guardian-agent.war`.

At the WebLogic Server CLI prompt, enter the following command line:

```
java weblogic.Deployer -debug -adminurl http://<admin_url>:<port> -username
<username> -password <password> -targets adminserver,<cluster1>,<cluster2>
-deploy -sourcerootforupload <dir_path>\bea-guardian-agent.war
```

Where:

- `<admin_url>` is the URL for the WLS Admin Server.
- `<port>` is the port number for the WLS Admin Server.

- **<cluster1>, <cluster2>** are the names of all configured clusters.
- **<dir\_path>** is the directory path to the Guardian Agent WAR file (bea-guardian-agent.war).

## Configure Maximum Agent Threads

If you have one or more managed servers in a domain, the Guardian Agent spawns the appropriate number of threads for communicating between the Guardian Agent on the WebLogic Administration Server, and the Guardian Agent running on the Managed Server(s). However, an excessive number of threads can affect the performance of the Administration Server. To control this, you can specify the maximum number of Agent threads to allocate to the WebLogic Server Administration Server for a specified domain. The **Max. Agent Threads** parameter setting determines this value. The default is 10.

There are two ways to set the value for this parameter:

- When activating the domain, you can set the **Max. Agent Threads** parameter in the **Advanced** tab page of the **Domain Activation Wizard** (see [Activate Domain](#)).
- If the domain is already activated, you can set the **Max. Agent Threads** parameter in the **Domain Properties** dialog box (see below).
- You can set the **Max. Agent Threads** parameter in the **Guardian > Evaluation** page of the **Preferences** pages. For instructions on setting Preferences, see [Preferences](#).

To set the **Max. Agent Threads** value for an activated domain, do the following:

1. In the Navigation pane, click the **Domain Explorer** tab to open the **Domain Explorer**.
2. Right-click on the domain name and select **Modify Domain** from the context menu.  
This displays the **Domain Properties** dialog box.
3. Select or enter a value in the **Max. Agent Threads** field.  
This can be an integer value from 1 to 20. The default is 10.
4. Click **OK**.

This resets **Max. Agent Threads** to the specified value for the selected domain.

## Configure Agent Thread Timeout

In order to manage Agent resources on both the WebLogic Administration Server and Managed Servers, Guardian enables you to specify the maximum amount of time (in seconds) that can elapse before a thread is terminated. The **Agent Thread Timeout** parameter governs this timeout. The default is **60**.

There are two ways to set the **Agent Thread Timeout** parameter:

- When activating the domain, you can set the **Agent Thread Timeout** parameter in the **Advanced** tab page of the **Domain Activation Wizard** (see [Activate Domain](#)).
- If the domain is already activated, you can set the **Agent Thread Timeout** parameter in the **Domain Properties** dialog box (see below).
- You can set the **Agent Thread Timeout** parameter in the **Guardian > Evaluation** page of the **Preferences** pages. For instructions on setting Preferences, see [Preferences](#).

To set the **Agent Thread Timeout** value for an activated domain, do the following:

1. In the Navigation pane, click the **Domain Explorer** tab to open the **Domain Explorer**.
2. Right-click on the domain name and select **Modify Domain** from the context menu.  
This displays the **Domain Properties** dialog box.
3. Select or enter a value in the **Agent Thread Timeout** field.  
This can be an integer value from **10** to **600**. The default is **60**.
4. Click **OK**.

This resets **Agent Thread Timeout** to the specified value for the selected domain.



# Workspaces

This section provides instructions for the following tasks:

- [Select Workspace](#)
- [Export Workspace](#)
- [Import Workspace](#)

The Guardian Workspace is the directory in which all of your Guardian data is stored. It includes the following data for each domain you have defined in Guardian:

- Preferences
- Domain Inventories
- Evaluation Summaries
- Service Request Archives (optional)

To prevent loss of work when Guardian is updated or uninstalled, your Workspace directory must be located outside of the Guardian installation directory. You can safely back up your Workspace data by exporting your Workspace to a file also located outside of your Guardian Installation directory. For instructions, see [Export Workspace](#).

## Select Workspace

To specify the location for your Guardian Workspace, you must restart Guardian and specify a new location in the **Select Workspace** dialog box during startup.

**WARNING:** To prevent loss of work when Guardian is updated or uninstalled, your Workspace directory must be located outside of the Guardian installation directory. You can safely back up your Workspace data by exporting your Workspace to a file also located outside of your Guardian Installation directory. For instructions, see [Export Workspace](#).

To select a Guardian Workspace when starting Guardian, do the following:

1. Start Guardian.

Guardian first displays the initial splash screen while loading, and then displays the **Select Workspace** dialog box.

2. Click **Browse**.

This opens the **Browse For Folder** dialog.

3. Select or create the folder (directory) to use as your Workspace folder.

**Caution:** Make sure this directory is not located within the Guardian installation directory.

**To use an existing folder:** Browse to the folder location and select the folder.

**To create a new folder:**

- a. Click **Make New Folder**.
  - b. Select the location for the folder.
  - c. Enter the name of the folder
4. Click **OK**.

This creates or selects the file and returns to the **Select Workspace** dialog box.

5. (Optional) Specify this as the default Workspace.

If you do not want to select the Workspace each time you start Guardian, select the checkbox for **Use this as the default workspace and do not ask again**.

To change this setting at a later time, do the following:

- a. Select **Window > Preferences...** to open the **Preferences** page.
- b. In the **Preferences** tree on the left, select **Guardian**.
- c. Select the **Prompt for workspace on startup** checkbox.
- d. Click **OK**.

The **Select Workspace** dialog box will be displayed the next time you start Guardian.

6. Click **Finish**.

Guardian loads the selected Workspace and completes the startup procedure.

## Export Workspace

You can export your Guardian Workspace data to a file, which you can use for backup and recovery purposes, or to import to another Guardian instance.

**WARNING:** To prevent loss of work when Guardian is updated or uninstalled, make sure your Workspace and any Workspace export files are located outside of your Guardian Installation directory.

To export a Guardian Workspace, do the following:

1. Select **File > Export**.

This opens the **Export Workspace Wizard**.

2. In the **Export** dialog box, open the **Guardian** folder and select **Guardian Workspace**.

**Note:** To clear a typed entry, click the **Clear** icon (file page icon) to the right of the destination field. This clears the **Select an export destination** field and redisplay the default folder tree.

3. Click **Next**.

4. For **Select File**, specify the file name and location to which to save your Workspace data.

Use one of the following methods to specify the file:

- Type in the absolute path name and file name.
- Click **Browse** to display a file browser from which you can select the file. Click **Save** to select the file and return to the **Export Workspace Wizard**.

5. Click **Finish**.

This saves your current Workspace as a `.zip` file containing all of your Workspace data, including the `guardian.registry`, `.project` and `.refresh` files.

## Import Workspace

You can import a Guardian Workspace from another Guardian instance, or an exported Workspace data file.

To import a Guardian Workspace, do the following:

1. Select **File > Import**.

This opens the **Import Workspace Wizard**.

2. In the **Import Workspace Wizard**, open the **Guardian** folder and select **Guardian Workspace**.

**Note:** To clear a typed entry, click the **Clear** icon (file page icon) to the right of the destination field. This clears the **Select an import source** field and redisplay the default folder tree.

3. Click **Next**.

4. For **Select File**, specify the Workspace file you want to import.

Use one of the following methods to specify the file:

- Type in the absolute path name and file name.
- Click **Browse** to display a file browser from which you can select the file. Click **Save** to select the file and return to the **Import Workspace Wizard**.

5. Click **Finish**.

This imports the selected Workspace data and returns to the main Guardian window.

# Preferences

This section provides instructions for the following tasks:

- [Configure Preferences](#)
- [Export Preferences](#)
- [Import Preferences](#)

## Configure Preferences

You can use the **Preferences** page to configure your Guardian Preferences and customize your Guardian environment.

To configure your Guardian Preferences, do the following:

1. Open the **Preferences** page.

You can use either of the following methods to open the **Preferences** page:

- Press **Ctrl+Shift+P**.
- Select **Window > Preferences** from the titlebar menu.

2. Open a folder and click on a category name to display the preferences in that category.

The left pane of the **Preferences** page is a navigation tree containing an extensive series of hierarchical folders and subfolders. Each folder and subfolder in the hierarchy is a category of preference attributes that you can configure.

The top level folders are as follows:

- **General**
- **Guardian**
- **Help**
- **Install/Update**

**Note:** For more information, see [Preferences](#) in [Chapter 3, “Reference.”](#)

3. (Optional) Click **Apply** to apply your preference settings for the current category, or click **Restore Defaults** to restore the default values for all **Preference** page parameters.
4. When you have finished setting your preferences for each category, click **OK**.

This applies and saves all of your new **Preference** page settings.

## Export Preferences

You can export your Guardian Preferences to a file for backup and recovery purposes, or to import to another Guardian instance.

To export your Guardian Preferences to a file, do the following:

1. Select **File > Export**.

This opens the **Export Preferences Wizard**.

2. In the **Export Preferences Wizard**, open the **General** folder and select **Preferences**.

**Note:** To clear a typed entry, click the **Clear** icon (file page icon) to the right of the destination field. This will clear the **Select an export destination** field and redisplay the default folder tree.

3. Click **Next**.

4. Specify the preferences to export.

Do one of the following:

- Select **Export all** to export all of your Guardian Preferences information.
- Select **Choose specific preferences to export** to display a selection list of preferences in the **Preferences** box. Then select the individual preferences you want to export, or click **Select All**.

5. For **To preference file**, specify the file name and location to which to save your preferences information.

Use one of the following methods to specify the file:

- Type in the absolute path name and file name.
- Click **Browse** to display a file browser from which you can select the file. Then click **Save** to select the file and return to the **Export Preferences Wizard**.

6. Click **Finish**.

This saves your current preferences information as a `.epf` file in the specified location.

## Import Preferences

To import a Guardian Preferences from a file, do the following:

1. Select **File > Import**.

This opens the **Import Preferences Wizard**.

2. In the **Import Preferences Wizard**, open the **General** folder and select **Preferences**.

**Note:** To clear a typed entry, click the **Clear** icon (file page icon) to the right of the destination field. This clears the **Select an import source** field and redisplay the default folder tree.

3. Click **Next**.

4. For **From preference file**, specify the file name and location of the file you want to import.

Use one of the following methods to specify the file:

- Type in the absolute path name and file name.
- Click **Browse** to display a file browser from which you can select the file. Then click **Save** to select the file and return to the **Import Preferences Wizard**.

5. Specify the preferences to import.

Do one of the following:

- Select **Import all** to import all preference information.
- Select **Choose specific preferences to import** to display a selection list of preferences in the **Preferences** box. Then select the individual preferences you want to import, or click **Select All**.

6. Click **Finish**.

This replaces your current **Preference** page settings with the settings from the imported file.

# Domains

This section provides instructions for the following tasks:

- [Activate Domain](#)
- [Activate Multiple Domains](#)
- [Deactivate Domain](#)
- [Modify Domain Properties](#)
- [Purge All Inactive Domains](#)

## Activate Domain

A domain is *active* when it has been defined in Guardian and has been enabled for evaluation.

**Note:** “Active” does not refer to the state of the domain servers themselves, but rather to whether you have enabled that domain for evaluation.

Activating a domain also results in the following:

- The new domain node is added to the Domain Explorer **Target Domains** folder.
- Guardian inventories the domain, and displays the **Domain Inventory Overview** in the Document Pane. In the **Domain Explorer**, the new inventory is added to the **Inventory History** folder for that domain.
- The domain is added to the **Active Domain Table**.
- The domain is added to the Guardian Registry.
- A folder for the domain is added to the Guardian Workspace. The domain folder contains the data from all Domain Inventories and Evaluation Summaries for the domain.

To activate a domain, do the following:

**Note:** If you are unable to activate any domains, you may need to manually deploy the Guardian Agent. For instructions, see [Manually Deploy the Guardian Agent](#).

1. Open the **Domain Activation** Wizard.

You can use any of the following methods to open the wizard:

- Press **Ctrl+Shift+A**.
- Click **Activate** in the Main Toolbar.



- Select **New > Domain** from the **File** menu.
  - Click the **Domain Explorer** tab to open the **Domain Explorer**. Then, right-click anywhere in the **Domain Explorer** and select **Activate Domain** from the context menu.
2. Click the **General** tab and configure the General Domain Properties.

The **General** tab contains the following fields:

- **Protocol** — Select one of the following from the drop-down menu:

**Note:** Oracle recommends using SSL encryption for communication between the client and the Guardian Agent.

- **http://** — Select this to use the HTTP protocol without encryption.
  - **https://** — Select this to use HTTP protocol with Secure Sockets Layer (SSL) encryption (recommended). Guardian uses 128 bit open source encryption for SSL. However, the configuration on the server for the domain determines whether or not Guardian will use 128 bit SSL encryption when activating that domain.
- **Host Name** — This is the listen address for the WebLogic Administration Server in the target domain.
  - **Port Number** — This is the listen port for the WebLogic Administration Server for the target domain.
  - **Username** — This is the username of a WebLogic Server Administrator or Monitor account on the target domain.
  - **Password** — This is the password for the WebLogic Server Administrator or Monitor account on the target domain.
  - **Remember Username/Password** — This specifies that the domain credentials are to be stored so that you do not have to enter them for future domain operations. Usernames and passwords are encrypted when stored.

**Note:** If you preselected a deactivated domain when you invoked the **Domain Activation Wizard**, the **Protocol**, **Hostname**, and **Port** fields will be automatically filled with the appropriate values.

3. Click the **Advanced** tab and enter the Advanced Domain Properties.

The **Advanced** tab contains the following fields and options:

- **Enable Proxy Connection:** Select this if a proxy server is to be used to access the target domain. Then, select a proxy server from the drop-down list. Click **Add Proxy Servers** to add proxy servers to this list (see [Add Inbound Proxy Servers](#) for complete instructions).
- **Max. Agent Threads:** Select the maximum number of Agent threads to allocate in the WebLogic Server Administration Server. This can be an integer value from **1** to **20**. The default is **10**.
- **Agent Thread Timeout (secs):** Specify the maximum number of seconds that can elapse before an Agent thread is deactivated when collecting data from managed servers. This can be an integer value from **10** to **600**. The default is **60**.
- **Domain Notes:** Enter a text description or other details pertaining to this domain. These notes are displayed in inventories and evaluations for this domain.

4. Click **Finish**.

You can now evaluate and inventory the domain.

## Activate Multiple Domains

If you need to activate multiple domains in Guardian, you can use a script to automate this procedure.

**Note:** Oracle recommends using SSL encryption for communication between the client and the Guardian Agent. Guardian uses 128 bit open source encryption for SSL. However, the configuration on the server for the domain determines whether or not Guardian will use 128 bit SSL encryption when activating that domain.

**WARNING:** You must deploy the Guardian Agent to each domain that is to be activated prior to running the activation script. For instructions, see “[Deploy Guardian Agent to Multiple Servers,](#)” above.

The following is an example script for activating multiple domains:

```
gactivateDomain -t https://slp7:7001 -u un -p pw -c true
gactivateDomain -t https://slp8:7001 -u un -p pw -c true
gactivateDomain -t https://sqa-lldev:4044 -u un -p pw -c true
```

The script can then be run in Guardian Headless Mode, by using the following command line:

```
guardianHeadless.cmd -gscript -f activatingScript.txt
```

For more information about running scripts, see [Run Scripts](#).

## Deactivate Domain

When you deactivate a domain, it is no longer available for evaluation. Any shortcuts that use the domain are removed from the **Shortcuts Table** and **Shortcut Explorer**. The Domain Inventory and Evaluation Summary data persists after deactivation, but is not available for viewing in Domain Explorer. You must reactivate the domain before you can view the data or evaluate the domain.

To deactivate a domain, do the following:

1. Open the **Domain Deactivation Wizard**.

Do one of the following:

- Click on the **Domain Explorer** tab to open the **Domain Explorer**. Then, right-click on a domain and select **Deactivate** from the context menu.
- Select **Window > Show View > Active Domains Table**. Then, select a domain from the table and click **Deactivate Domain**.

2. Click on a domain entry to select it.

3. Click **Finish**.

**WARNING:** If you click **Finish**, you will **not** be prompted to confirm the deactivate operation. The domain will be deactivated immediately.

This deactivates the domain and returns to the **Domain Explorer** or **Active Domain Table**.

**Note:** The **Domain Deactivation Wizard** does not remove the Oracle Guardian Agents that were installed when you activated the domains. For instructions on removing Agents, see the WebLogic Server Administration Console Online Help. For instructions on purging inactive domains from Guardian, see [Purge All Inactive Domains](#).

## Modify Domain Properties

You can modify the Domain Properties for a domain to customize the way Oracle Guardian communicates with that domain.

To modify the Domain Properties for a domain, do the following:

1. Open the **Domain Properties** configuration page.

Do one of the following:

- Select **Window > Show View > Active Domains Table** to open the **Active Domains Table**. Then, select a domain and click **Modify Domain**.
- Click the **Domain Explorer** tab to open the **Domain Explorer**. Then, right-click on a domain in the **Domain Explorer** tree, and select **Modify Domain** from the context menu.

2. Configure the Domain Properties.

The **Domain Properties** configuration page contains the following fields and options:

- **Name:** This identifies the name for this domain. You cannot modify this value.
- **Username** — This is the username of an WebLogic Server Administrator or Monitor account on the target domain.
- **Password** — This is the password for the WebLogic Server Administrator or Monitor account on the target domain.
- **Remember Username/Password** — This specifies that the domain credentials are to be stored so that you do not have to enter them for future domain operations.
- **Enable Proxy Connection:** Select this if a proxy server is to be used to access the target domain. Then, select a proxy server from the drop-down list. This option is disabled if the Proxy Servers list is empty. For instructions on populating and enabling the list, see [Add Inbound Proxy Servers](#).
- **Max. Agent Threads:** Select the maximum number of Agent threads to allocate in the WebLogic Server Administration Server. This can be an integer value from **1** to **20**. The default is **10**.

- **Agent Thread Timeout (secs)**: Specify the maximum number of seconds that can elapse before an Agent thread is deactivated when collecting data from managed servers. This can be an integer value from **10** to **600**. The default is **60**.
  - **Notes**: Enter a text description or other details pertaining to this domain.
3. Click **OK**.

This applies your new Domain Properties settings to the selected domain.

## Purge All Inactive Domains

To remove all deactivated domains from the **Domain Explorer**, select **Tools > Purge Inactive Domains**.

**WARNING:** You will **not** be prompted to confirm the purge operation. The domains are purged immediately. Purging the inactive domains also deletes the associated Domain Inventories and Evaluation Summaries from the Guardian Workspace, and removes the domains from the Guardian Registry.

## Domain Groups

This section provides instructions for the following tasks:

- [Add Domain Group](#)
- [Rename Domain Group](#)
- [Delete Domain Group](#)

### Add Domain Group

To create and populate a new Domain Group, do the following:

1. In the Navigation Pane, click the **Domain Explorer** tab to open the **Domain Explorer**.
2. Right-click on **Target Domains** and select **Add Domain Group** from the context menu.  
This opens the **Add Domain Group** dialog box.
3. In the **Name** field, enter a name for the Domain Group.

4. Click **OK**.

This adds the new Domain Group to the **Domain Explorer** tree, and closes the **Add Domain** dialog box.

5. Populate the Domain Group.

In the **Domain Explorer** Domain tree, click on a domain name to select it, then drag and drop it into the new Domain Group folder. Repeat this step for each domain you want to include in the new Domain Group.

## Rename Domain Group

To rename an existing Domain Group, do the following:

1. In the Navigation Pane, click the **Domain Explorer** tab to open the **Domain Explorer**.
2. Right-click on **Target Domains** and select **Rename Domain Group** from the context menu.

This opens the **Rename Domain Group** dialog box.

3. In the **Name** field, enter the new name for the Domain Group.
4. Click **OK**.

This renames the Domain Group in the **Domain Explorer** tree, and closes the **Rename Domain** dialog box.

## Delete Domain Group

1. Click on the **Domain Explorer** tab to open the **Domain Explorer**.
2. Remove any domains from the Domain Group.

You cannot delete a Domain Group that contains a domain. If there are domains in the Domain Group, you can drag and drop the domains into the **Target Domains** folder, or into another Domain Group folder.

3. Right-click on the Domain Group you want to delete, and select **Delete Domain Group** from the context menu.

This displays a **Domain Group Delete Confirmation** dialog box prompting you to confirm the delete request.

4. Click **OK**.

This deletes the Domain Group from the **Domain Explorer** tree, and closes the **Delete Confirmation** dialog box.

## Proxy Servers

This section provides instructions for the following tasks:

- [Add Inbound Proxy Servers](#)
- [Enable Inbound Proxy Connection](#)
- [Enable and Test Outbound Proxy](#)

### Add Inbound Proxy Servers

If you want to use an inbound proxy server for communications between Guardian and the WebLogic Administration Server, you must first add the proxy server to Guardian.

To add an inbound proxy server, do the following:

1. Click **Activate** to open the **Domain Activation Wizard**.
2. Click the **Advanced** tab.
3. Click **Add Proxy Servers** to open the **Proxy Servers Preferences** page.
4. Click **Add** to open the **Proxy Properties** dialog box.
5. Enter the proxy server **Hostname**, **Port**, **Username**, and **Password** information.
6. Click **OK**.

This adds the proxy server to the **Proxy Servers** list in the **Proxy Servers** configuration page, and dismisses the **Proxy Properties** dialog box.

7. (Optional) Repeat steps four through six to add additional proxy servers to the list.
8. Click **OK**.

This adds the new proxy server to the Proxy Server drop-down list in the **Advanced** tab of the **Domain Activation Wizard** and dismisses the dialog box.

## Enable Inbound Proxy Connection

If you want to use an inbound proxy server for communications between Guardian and the WebLogic Administration Server, you must enable the proxy connection.

To enable an inbound proxy connection, do the following:

1. Manually deploy the Guardian Agent onto the target domain.
2. If you have not already done so, add the proxy server to the **Proxy Server** list in the **Domain Activation Wizard**.

For instructions, see [Add Inbound Proxy Servers](#).

3. Open the **Domain Activation Wizard**.

You can use any of the following methods to open the wizard:

- Press **Ctrl+Shift+A**.
- Click **Activate** in the Main Toolbar.
- Select **New > Domain** from the **File** menu.
- Click the **Domain Explorer** tab to open the **Domain Explorer**. Then, right-click in the **Domain Explorer** panel and select **Activate Domain** from the context menu.

4. Click the **Advanced** tab in the **Activate Domain Wizard**.
5. Check the **Enable Proxy Connection** checkbox.
6. Select the proxy server from the drop down list.
7. Click **Finish**.



## Enable and Test Outbound Proxy

If you are using an outbound proxy server for communications between Guardian and the outside world, you will need to test the outbound proxy connection.

To enable and test an outbound proxy server connection, do the following:

1. Select **Window > Preferences** from the titlebar menu.

This displays the **Preferences** page.

2. In the **Preferences** folder tree (left pane) open the **Guardian** folder and select **Oracle Support**.

This displays the **Oracle Support** preferences, which include some settings for proxy testing.

3. In the **Oracle Support** preferences, select the **Requires Proxy** checkbox.

4. Click **Test Proxy**.

After the test completes, a status message is displayed at the top of the page as to whether it was successful or not.

## Inventories and Evaluations

This section provides instructions for the following tasks:

- [Inventory Domain](#)
- [View Domain Inventories and Evaluation Summaries](#)
- [Evaluate Domain](#)
- [Evaluate Snapshot](#)
- [Compare Inventories or Evaluations](#)
- [Export Inventory or Evaluation](#)

## Inventory Domain

A Domain Inventory is an assessment of your current domain environment. The results are displayed in a **Domain Inventory Overview** in the Document Pane. The inventory is also added to the **Inventory History** folder in the **Domain Explorer**. Domain Inventories are also created automatically whenever you activate or evaluate domains.

To inventory a domain, do the following:

1. Open the **Inventory Wizard**.

You can use any of the following methods to open the wizard:

- Press **Ctrl+Shift+I**.
- Click **Inventory** on the Main Toolbar.
- Select **File > New > Inventory**.
- Click the **Domain Explorer** tab to open the **Domain Explorer**. Then, right-click on a domain name in the **Domain Explorer** tree and select **Inventory** from the context menu.

2. If you did not preselect a domain when opening the wizard, select a domain from the **Inventory Wizard** domain table.
3. Enter the **Username** and **Password** of the WebLogic Server Administrator or Monitor account for the target domain.
4. Click **Finish**.

This initiates the Domain Inventory and displays the results in a **Domain Inventory Overview** in the Document Pane.

## View Domain Inventories and Evaluation Summaries

To view an existing Domain Inventory, do the following:

1. Click the **Domain Explorer** tab to open the **Domain Explorer**.
2. Open the **Inventory History** folder for the domain.
3. Double-click on the inventory name to view the selected **Domain Inventory Overview** in the Document Pane.

## Evaluate Domain

To identify potential problems before they occur, you can use the **Evaluation Wizard** to evaluate one or more domains.

**Note:** The evaluation of some signatures may hang the evaluation. To prevent this, open the **Preferences** page, and set the **Guardian > Signature Evaluation Threshold** parameter (in milliseconds). Then select the **Enable Safe Evaluation** checkbox. If enabled, the evaluation of a signature is terminated when this threshold is reached, and the Signature ID is written to the Hung Signature List. In addition, if a signature evaluation fails due to a runtime error, that Signature ID is written to the Problem Signature List. Guardian will not attempt to evaluate signatures in the Problem Signature List. For general instructions on setting Preferences, see [Preferences](#).

**WARNING:** If a server is down when the evaluation is conducted, this can prevent some signatures from being detected.

To evaluate a domain, do the following:

1. In the Navigation Pane, click the **Domain Explorer** tab to open the **Domain Explorer**.
2. Select a domain and open the **Evaluation Wizard**.

Use any of the following methods to select a domain and open the wizard:

- In the **Domain Explorer**, select a domain and then click the **Evaluation** button. To select multiple domains, press the **Ctrl** or **Shift** key while selecting additional items.
  - Right-click on a domain and then select **Evaluate** from the context menu.
  - Double-click a domain name in the **Domain Explorer**.
  - Select **File > New > Evaluation** from the titlebar.
  - Select **Window > Show View > Active Domains Table** to display the **Active Domains Table**. Then, double-click a domain name to open the wizard for the selected domain.
3. In the **Bundle** field, select the Signature Bundle to evaluate.

Click the **Bundle** field for an entry to display a down-arrow icon at the far right of the field. Then click the arrow to open the **Bundle** drop down menu, and select a Signature Bundle. The default is **Default Signatures**.

4. Enter the credentials for the WebLogic Server for the selected domain.

In the **Domain Credentials** section, enter the following:

- **Username:** This is the username for the WebLogic Server Administrator or Monitor account on the target domain.
- **Password:** This is the password for the WebLogic Server Administrator or Monitor account on the target domain.

If you selected multiple domains, you must supply the login credentials for each domain before you can launch the evaluation.

5. (Optional) Select the **Remember username/password** checkbox to save your login credentials for the selected domain(s).

Select this option if you want your login information to persist so that you do not have to enter it each time you evaluate this domain. This is especially useful if you routinely evaluate multiple domains concurrently. Usernames and passwords are encrypted when stored.

6. (Optional) Create a shortcut for this evaluation.

This is useful if you routinely perform this particular type of evaluation. To create a shortcut, select the **Create Shortcut** checkbox, and enter a brief name for the shortcut in the text field. For detailed instructions on creating, evaluating, and managing shortcuts, see the section entitled, [Shortcuts](#).

7. Click **Finish**.

This initiates the evaluation and displays an **Evaluation Summary** of the results in the Document Pane. In the **Domain Explorer**, the new Domain Inventory is added to the **Inventory History** folder, and the new Evaluation Summary is added to the **Evaluation History** folder. For a complete description of the **Domain Explorer**, see [Domain Explorer](#) in [Chapter 3, “Reference.”](#)

## Evaluate Snapshot

A Snapshot Evaluation is a complete assessment of all of the configuration details for a specific domain, at the particular moment the evaluation is executed. The process for performing a Snapshot Evaluation is the same as for any other type of evaluation. The primary difference is in the type of Signature Bundle you select for the evaluation, and the type of information the evaluation collects and evaluates.

**Note:** As with other evaluations, you can compare Snapshot Evaluations. Comparing two Snapshot Evaluations enables you to see very quickly the differences between configurations for those two domains. For instructions, see [Compare Inventories or Evaluations](#).

**Note:** If a server is down when the evaluation is conducted, this can prevent some signatures from being detected.

**Caution:** Generating a Snapshot Evaluation of a large domain may consume a lot of memory, and take a long time to complete.

To evaluate a snapshot of a domain configuration, do the following:

1. In the Navigation Pane, click the **Domain Explorer** tab to open the **Domain Explorer**.
1. Select a domain and open the **Evaluation Wizard**.

Do one of the following:

- In the **Domain Explorer**, select a domain and then click the **Evaluation** button.
- Right-click on a domain name and then select **Evaluate** from the context menu.

2. In the **Bundle** field, select the type of snapshot to create and evaluate.

Click the **Bundle** field for an entry to display a down-arrow icon at the far right of the field. Then click the arrow to open the **Bundle** drop down menu, and select one of the following:

- **Snapshot - All**
- **Snapshot - JDBC**
- **Snapshot - JMS**
- **Snapshot - Security**

3. Enter the credentials for the WebLogic Server for the selected domain.

In the **Domain Credentials** section, enter the following:

- **Username:** This is the username for the WebLogic Server Administrator or Monitor account on the target domain.
- **Password:** This is the password for the WebLogic Server Administrator or Monitor account on the target domain.

4. Click **Finish**.

This initiates the Snapshot Evaluation and displays an **Evaluation Summary** of the results in the Document Pane. In the **Domain Explorer**, the new Domain Inventory is added to the **Inventory History** folder, and the new Evaluation Summary is added to the **Evaluation History** folder.

## Compare Inventories or Evaluations

You can compare inventories or evaluations from the same or different domains. Both objects must be of the same type—that is, two inventories or two evaluations. You cannot compare an inventory against an evaluation.

You can compare any two Evaluation Summaries. Comparing two Snapshot Evaluations is particularly useful, as a Snapshot Evaluation collects and evaluates all of the configuration data for the evaluated domain. Such a comparison enables you to see very quickly the differences between the configurations and their issues for those two domains.

To compare two Domain Inventories or Evaluation Summaries, do the following:

1. In the Navigation pane, open the **Domain Explorer**.

Click the **Domain Explorer** tab, or select **Window > Show View > Domain Explorer**.

2. Open the **History** folder containing the resources to be compared (**Inventory History** or **Evaluation History**).

3. Select the two documents to be compared.

Click on the first item to select it, and then **Ctrl**+click to select the second item.

4. Right-click on the selected items and then select **Compare** from the context menu.

**Note:** The **Compare** option remains deactivated until two like items have been selected.

Selecting **Compare** opens the **Text Compare** display in the Document Pane. The differences between the two documents are highlighted, and related segments are shown in boxed sections, with connectors indicating the relation.

For a description of the **Text Compare** View navigation controls and context menu, see [Text Compare View](#) in [Chapter 3, “Reference.”](#)

## Export Inventory or Evaluation

You can export a Domain Inventory or Evaluation Summary report to a PDF or HTML file for external viewing or archiving.

To export a report, do the following:

1. Click the **Domain Explorer** tab in the Navigation Pane to open the **Domain Explorer**.
2. Open the **History** folder containing the report you want to save.

The **Domain Explorer** contains two **History** folders:

- **Inventory History** — This contains a linked list of the available Domain Inventory reports.
- **Evaluation History** — This contains a linked list of the available Evaluation Summary reports.

3. Open the report.

Double-click on a report name to open the report and display it in the Document Pane.

4. Select **File > Save As**.

This opens a standard **Save As** file browser.

5. Browse to the location to which to save the file.
6. Select the type of file to which to save the report.

For the **Save as type:** field, select one of the following from the drop-down menu:

- **PDF Files (\*.pdf)**
- **HTML Files (\*.html)**

7. Enter a file name in the **File name** field.
8. Click **OK**.

# Signatures

This section provides instructions for the following tasks:

- [View Signature Overview](#)
- [Filter Signatures](#)
- [Sort Signatures](#)

## View Signature Overview

To display the **Overview** for a signature—also referred to as the **Signature View**—do the following:

1. In the Navigation Pane, click on the **Signature Explorer** or **Bundle Explorer** tab.

This opens the **Signature Explorer** or **Bundle Explorer**, respectively. Signature Overviews are accessible only through these two Explorers.

2. Double-click on a signature name in the Navigation Pane.

This displays the overview for that signature in the Document Pane.

## Filter Signatures

You can use Signature Filters to specify which signatures are to be displayed in the **Signature Explorer**, **Bundle Explorer**, and **Evaluation Summaries**.

To apply Signature Filters, do the following:

1. Open the **Filters** dialog box.

- From the **Signature Explorer** or **Bundle Explorer**:

Click the Menu icon (small white triangle in the upper right corner), and select **Filters...** from the context menu.

- From an Evaluation Summary:

Right-click on any signature in the **Detected Signatures** table, and select **Filters...** from the context menu.



## 2. Specify your filter settings.

Click a radio button to specify **Show** or **Hide** for each filter. The Signature Filters are as follows:

**Name** — Filter according to name. Specify all or a portion of a signature name to use as the filter criteria. This can be a character string or standard regular expression. Enter .\* to filter all signatures. The default is **Show** all (.\*) .

**Severity** — Filter according to severity. Click a checkbox to select/deselect a severity level. These are: **Critical**, **Warning**, and **Information**. The default is **Show** all (all selected).

**Type** — Filter annotated signatures according to Annotation Type. Click a checkbox to select/deselect a type. There are two Annotation Types: **Flag** and **Ignore**. The default is **Hide** signatures with an Annotation Type of **Ignore**. For more information on Annotation Types, see [Signature Annotations](#) in [Chapter 1, “About Oracle Guardian.”](#)

**Annotation Name** — Filter annotated signatures according to Annotation Name. Specify all or a portion of an Annotation Name to use as the filter criteria. This can be a character string or standard regular expression. Enter .\* to filter all annotated signatures. The default is **Show** all (.\*) .

**Comment** — Filter annotated signatures according to annotation comment. Specify all or a portion of a comment to use as the filter criteria. This can be a character string or standard regular expression. Enter .\* to filter all signatures. The default is **Show** all (.\*) .

**Domain** — Filter annotated signatures in this domain, as specified above.

**Evaluation** — Filter annotated signatures in this Evaluation, as specified above.

## 3. Click **OK**.

This applies your filter specifications and returns to the Guardian main window.

# Sort Signatures

You can sort the list of signatures displayed in the **Signature Explorer**, **Bundle Explorer**, and Evaluation Summaries.

There are two ways to sort signatures, depending on the context of the signature display:

- [Sort Menu](#) —
- [Sorting Dialog Box](#)

The following sections describe each of these methods.

## Sort Menu

1. In the Navigation Pane, click the **Signature Explorer** or **Bundle Explorer** tab to open one of these Explorers.
2. Click the Menu icon to open the Explorer menu.
3. Select **Sort Signatures** > to open the **Sort** submenu.
4. Select the category by which to sort.

Select one of the following:

- **By Name**
- **By Severity**

The signature lists are automatically reordered according to the selected category.

## Sorting Dialog Box

You can use the **Sorting** dialog box to sort signatures in the **Detected Signatures** table of an Evaluation Summary.

To specify your sort criteria, do the following:

1. Right-click on a signature title in the table and select **Sorting...** from the context menu.

This opens the **Sorting** dialog box for specifying the sort order.

2. Specify the sort criteria.

There are four drop-down menus from which you can select a table field. The order in which you select the fields determines the hierarchy of the sort order. For each field, select one of the following:

- **By Name**
- **By Severity**
- **Impact**
- **Product**
- **Topic**

3. Click a radio button next to each field selection to specify **Ascending** or **Descending** order for that field.
4. Click **OK** to apply your sort criteria to the **Detected Signatures** table for that Evaluation Summary.

## Signature Annotations

This section provides instructions for the following tasks:

- [Annotate Signature](#)
- [Edit Annotation](#)
- [Delete Annotation](#)
- [View Annotations](#)
- [Filter Annotated Signatures](#)

You can use the **Annotations Wizard** to create, edit, delete, and view signature annotations.

You can access the **Annotations Wizard** from the Signatures List in any of the following contexts:

- **Evaluation Summary**
- **Signature Explorer**
- **Bundle Explorer**

To open the wizard, right-click on a signature title and select **Annotations > Manage Annotations** from the context menu.

## Annotate Signature

To create an annotation and add it to a signature, do the following:

1. Navigate to the Signatures List containing the signature you want to annotate.

The contents of a Signatures List may vary according to the context in which it occurs. Signatures Lists can be found in the following locations:

- **Evaluation Summary**
- **Signature Explorer**
- **Bundle Explorer**

2. Open the **Annotations Wizard**.

Right-click on the signature title and select **Annotations > Manage Annotations** from the context menu.

3. Click **Add**.

This displays the **Add** dialog box.

4. Select an **Annotation Type**.

Select one of the following:

- **Ignore** — Ignore this signature for the specified targets.
- **Flag** — Flag this signature for the specified targets.

5. (Optional) Enter a **Name** and **Comment** for the annotations.

6. Select an Annotation Target.

**Note:** This field is available only if you invoked the wizard from an Evaluation Summary. For all other contexts, the default applies (**All Domains**).

Click the down-arrow next to the **Apply to** field to display a drop-down menu of Annotation Targets. Select one of the following:

- **All Domains** — Apply this annotation to this signature for all domains.
- **This Domain** — Apply this annotation to this signature for this domain, only. This option is available only if you are annotating a signature in an Evaluation Summary.
- **This Evaluation** — Apply this annotation to this signature in this evaluation, only. This option is available only if you are annotating a signature in an Evaluation Summary.

7. Click **Finish**.

This adds the new annotation to the **Annotations** list for the selected signature.

8. Click **OK**.

This returns to the Guardian main window. Note that a decoration has been added to the icon for the annotated signature.

## Edit Annotation

To change an existing annotation, do the following:

1. Navigate to the Signatures List containing the signature with the annotation you want to modify.

**Note:** If the signature is not included in the Signatures List(s), you may need to temporarily set one or more filter attributes to **Show**. For instructions, see [Filter Signatures](#).

2. Open the **Annotations Wizard**.

Right-click on the title of the annotated signature and select **Annotations > Manage Annotations** from the context menu.

3. Select the annotation to be modified and click **Edit**.

**Note:** The **Edit** button will be greyed out (deactivated) until you select an annotation.

This displays the **Edit** dialog box for the selected annotation.

4. Enter your changes.

5. Click **Finish**.

This updates the **Annotations** list with your changes.

6. Click **OK**.

This updates the appropriate Signatures Lists and returns to the Guardian main window.

**Note:** If you modified any filter settings in [step 1](#), you can reset the filters to their original settings now. For instructions, see [Filter Signatures](#).

## Delete Annotation

To delete an annotation, do the following:

1. Navigate to the Signatures List containing the signature with the annotation you want to delete.

**Note:** If the signature is not included in the Signatures List(s), you may need to temporarily set one or more filter attributes to **Show**. For instructions, see [Filter Signatures](#).

2. Open the **Annotations Wizard**.

Right-click on the title of an annotated signature and select **Annotations > Manage Annotations** from the context menu.

3. Select the annotation to be modified and click **Delete**.

**Note:** The **Delete** button remains deactivated until you select an annotation.

This removes the annotation from the **Annotations** list for that signature.

4. Click **OK**.

This updates the appropriate Signatures Lists and returns to the Guardian main window.

**Note:** If you modified any filter settings in [step 1](#), you can reset the filters to their original settings now. For instructions, see [Filter Signatures](#).

## View Annotations

You can view the annotations for a signature by selecting the signature and then opening the **Annotations Wizard**. The **Annotations Wizard** displays a table of all annotations for the selected signature.

You can access the **Annotations Wizard** from the Signatures List in any of the following contexts:

- **Evaluation Summary**
- **Signature Explorer**
- **Bundle Explorer**

To open the wizard, right-click on a signature title and select **Annotations > Manage Annotations** from the context menu.

## Filter Annotated Signatures

You can use Signature Filters to specify which signatures to display in the **Signature Explorer**, **Bundle Explorer**, and Evaluation Summaries. Some filters apply specifically to annotated signatures and their attributes.

This section provides instructions for applying filters to annotated signatures, only. For complete instructions on using Signature Filters, see [Filter Signatures](#).

To apply Annotation Filters, do the following:

1. Open the Evaluation Summary to which you want to apply the filter.
2. Open the **Filter Configuration** wizard.

In the Signatures List, right-click on a signature name and select **Filters...** from the context menu.

3. Specify your filter settings.

Click a radio button to specify **Show** or **Hide** for each filter. The Signature Filters that apply to annotations are as follows:

**Type** — Filter annotated signatures according to Annotation Type. Click a checkbox to select/deselect a type. There are two Annotation Types: **Flag** and **Ignore**. The default is **Hide** signatures with an Annotation Type of **Ignore**.

**Annotation Name** — Filter annotated signatures according to Annotation Name. Specify all or a portion of an Annotation Name to use as the filter criteria. This can be a character string or a standard regular expression. Enter **.\*** to filter all annotated signatures. The default is **Show** all (**.\***).

**Comment** — Filter annotated signatures according to annotation comment. Specify all or a portion of a comment to use as the filter criteria. This can be a character string or standard regular expression. Enter **.\*** to filter all signatures. The default is **Show** all (**.\***).

4. Click **OK**.

This applies your filter specifications and returns to the Guardian main window.

# Bundles

This section provides instructions for the following tasks:

- [Explore Bundles](#)
- [View Bundle Overview](#)
- [Evaluate Bundles](#)

## Explore Bundles

You can use the **Bundle Explorer** to view the available Signature Bundles and their contents. For a detailed description of the Bundle Explorer, see [Bundle Explorer](#) in [Chapter 3, “Reference.”](#)

## View Bundle Overview

To display an overview of the contents of a Bundle, do the following:

1. In the Navigation Pane, click the **Bundle Explorer** tab to open the **Bundle Explorer**.
2. In the **Bundle Explorer**, double-click on a bundle name.

This displays the selected **Bundle Overview** in the Document Pane.

## Evaluate Bundles

Use the **Bundle Evaluation Wizard** to preselect a domain and Bundle for Evaluation, and then initiate the evaluation.

**Note:** The evaluation of some signatures may hang the evaluation. To prevent this, open the **Preferences** page, and set the **Guardian > Signature Evaluation Threshold** parameter (in milliseconds). Then select the **Enable Safe Evaluation** checkbox. If enabled, the evaluation of a signature is terminated when this threshold is reached, and the Signature ID is written to the Hung Signature List. In addition, if a signature evaluation fails due to a runtime error, that Signature ID is written to the Problem Signature List. Guardian will not attempt to evaluate signatures in the Problem Signature List. For general instructions on setting Preferences, see [Preferences](#).

**WARNING:** If a server is down when the evaluation is conducted, this can prevent some signatures from being detected.



To open the **Bundle Evaluation Wizard**, do the following:

1. In the **Domain Explorer**, open the **Evaluation History** folder.
2. Right-click on an Evaluation Summary and select **Evaluate Bundle** from the context menu.  
This opens a submenu containing a list of Bundles available for evaluation.
3. Select a Bundle from the submenu to open the **Bundle Evaluation Wizard** for that Bundle.  
The **Bundle Evaluation Wizard** opens with the selected domain and Bundle preselected, just as if you had invoked a Shortcut.
4. Enter the credentials for the WebLogic Server for the selected domain.

In the **Domain Credentials** section, enter the following:

- **Username**: This is the username for the WebLogic Server Administrator or Monitor account on the target domain.
- **Password**: This is the password for the WebLogic Server Administrator or Monitor account on the target domain.

If you selected multiple domains, you must supply the login credentials for each domain before you can launch the Evaluation.

5. (Optional) Select the **Remember username/password** checkbox to save your login credentials for the selected domain(s).

Select this option if you want your login information to persist so that you do not have to enter it each time you evaluate this domain. This is especially useful if you routinely evaluate multiple domains concurrently. Usernames and passwords are encrypted when stored.

6. Click **Finish**.

This initiates the evaluation and displays an **Evaluation Summary** of the results in the Document Pane. In the **Domain Explorer**, the new Domain Inventory is added to the **Inventory History** folder, and the new Evaluation Summary is added to the **Evaluation History** folder.

# Shortcuts

This section provides instructions for the following tasks:

- [Create Shortcut](#)
- [Evaluate Shortcut](#)
- [Delete Shortcut](#)

A Shortcut enables you to streamline the evaluation procedure by predefining and storing the domain, Signature Bundle, and other parameters for evaluations that you perform frequently. You can then evaluate the Shortcut, saving you the effort of re-entering the values each time you want to run the evaluation.

## Create Shortcut

A Shortcut enables you to predefine the evaluation parameters for evaluations you perform frequently, saving you the effort of re-entering the values each time you run the evaluation.

There are two ways to create a Shortcut:

- [Create Shortcut with Shortcut Wizard](#) — Use this method if you want to quickly create a Shortcut without evaluating the selected domain.
- [Create Shortcut with Evaluation Wizard](#) — Use this method if you want to create a Shortcut when evaluating a domain. The parameters you set for the evaluation are then used to create the Shortcut. This method also enables you to enter and save the Administrator login credentials so that you do not have to enter them each time you evaluate the Shortcut.

The following sections describe each of these procedures.

## Create Shortcut with Shortcut Wizard

Use the **Shortcut Wizard** if you want to quickly create a Shortcut without evaluating the selected domain. However, you will not be able to enter and save the login credentials for the WebLogic Server Administrator or Monitor account. Consequently, you will need to enter these each time you evaluate the Shortcut. For instructions on storing the login credentials when creating a Shortcut, see [Create Shortcut with Evaluation Wizard](#).

To use the **Shortcut Wizard** to create a Shortcut, do the following:

1. Open the **Shortcut Wizard**.

You can use any of the following methods to open the wizard:

- Press **Ctrl+Shift+S**.
- Select **File > New > Shortcut**.
- Select **Window > Show View > Shortcuts Table** to open the **Shortcuts Table**. Then, click **Add Shortcut** in the **Shortcuts Table** toolbar.
- Right-click in the **Domain Explorer** or **Shortcut Explorer** and select **Add Shortcut** from the context menu.

2. Select the domain to associate with the Shortcut.

3. Select the Signature Bundle to associate with the Shortcut.

Select a Signature Bundle from the **Bundle** field drop-down menu. This is the Bundle that will be evaluated against the specified domain when you evaluate the Shortcut. The default is **Default Signatures**.

4. Select the **Create Shortcut** checkbox and enter a brief name for the Shortcut.

5. Click **Finish**.

This adds the new Shortcut to the **Shortcuts Table** and the **Shortcut Explorer** tree. For instructions on evaluating a Shortcut, see [Evaluate Shortcut](#).

## Create Shortcut with Evaluation Wizard

You can create a Shortcut by selecting the **Save as Shortcut** option when using the Evaluation Wizard to evaluate a domain. This method of creating a Shortcut enables you to enter and store the Administrator login credentials so that you need not enter them each time you evaluate the Shortcut.

To use the **Evaluation Wizard** to create a Shortcut, do the following:

1. Open the **Evaluation Wizard**.

You can use any of the following methods to open the wizard:

- Press **Ctrl+Shift+E**.
- Select **File > New > Evaluation**.
- Right-click in the **Domain Explorer** and select **Evaluate** from the context menu.

2. Select the domain to associate with the Shortcut.
3. In the **Bundle** field, select the Signatures Bundle to associate with the Shortcut.  
 Select a Signature Bundle from the **Bundle** field drop-down menu. This is the bundle that will be evaluated against the specified domain when you evaluate the Shortcut. The default is **Default Signatures**.
4. Enter the **Username** and **Password** for the WebLogic Server Administrator or Monitor account on the target domain.
5. (Optional) Select the **Remember username/password** checkbox to store your login credentials for the selected domain(s).  
 Select this option if you want your login information to persist so that you do not have to enter it each time you evaluate this Shortcut. This is especially useful if you will be evaluating the Shortcut on a frequent basis. Usernames and passwords are encrypted when stored.
6. Select the **Create Shortcut** checkbox and enter a brief name for the Shortcut.
7. Click **Finish**.

This adds the new Shortcut to the **Shortcuts Table** and the **Shortcut Explorer** tree. For instructions on evaluating a Shortcut, see [Evaluate Shortcut](#).

## Evaluate Shortcut

A Shortcut enables you to predefine the evaluation parameters for evaluations you perform frequently, saving you the effort of re-entering the values each time you run the evaluation. To evaluate a Shortcut, use the **Shortcut Evaluation Wizard**.

To evaluate a Shortcut, do the following:

1. Open the **Shortcut Evaluation Wizard**.

You can do this using any of the following methods:

- Select **Window > Show View > Shortcuts Table** to open the **Shortcuts Table**. Then, double-click on a Shortcut name in the **Shortcut Table**.
- Click the **Shortcut Explorer** tab to open the **Shortcut Explorer**. Then, double-click on a Shortcut name in the Shortcut list.
- Click the **Shortcut Explorer** tab to open the **Shortcut Explorer**. Then, right-click on a Shortcut name in the Shortcut list and select **Evaluate Shortcut** from the context menu.

The **Shortcut Evaluation Wizard** opens with the predefined values for the selected Shortcut displayed in the domain table. You can change the **Bundle** selection.

2. If necessary, enter the **Username** and **Password** for the WebLogic Server Administrator or Monitor account for the target domain.

If you selected the **Remember username/password** option when you activated the domain or defined the Shortcut, the **Username** and **Password** fields are pre-filled. Otherwise, you must enter this information before launching the evaluation.

3. Click **Finish**.

This launches the evaluation, and returns you to the Guardian main window when the evaluation completes. As with a standard evaluation, the **Domain Explorer History** folders are updated to include an entry for the resulting Domain Inventory and Evaluation Summary. The results of the evaluation are displayed in an **Evaluation Summary Overview** in the Document Pane.

## Delete Shortcut

You can use either of the following methods to delete a Shortcut:

- Select **Window > Show View > Shortcuts Table** to open the **Shortcuts Table**. Then, select a Shortcut from the Shortcut list and click **Delete**.
- Click the **Shortcut Explorer** tab to open the **Shortcut Explorer**. Then, right-click on a Shortcut in the Shortcut list and select **Delete Shortcut** from the context menu.

# Command Line Interface

This section provides instructions for the following tasks:

- [Start Guardian Headless Mode](#)
- [Redirecting Guardian CLI Command Output](#)
- [Run Scripts](#)
- [Viewing CLI Script Results](#)
- [Schedule Scripts](#)
- [Receive Notifications](#)

The Guardian Command Line Interface (CLI)—also referred to as Guardian Headless Mode—is a set of Guardian commands that you can issue directly from the operating system command prompt. There is a Guardian CLI command for each of the most common tasks you can perform using the Guardian User Interface. For a complete description of these commands and their syntax, see [Command Line Interface](#) in [Chapter 3, “Reference.”](#) For instructions on starting the Command Line Interface, see the next section, [Start Guardian Headless Mode](#).

## Start Guardian Headless Mode

To start the Guardian Command Line Interface, do the following:

**Note:** Guardian Command Line Interface commands are case sensitive.

1. At the operating system command prompt, change directories to the Guardian installation directory.

```
cd <root>\guardian\
```

Where:

<root> is the parent directory for the Guardian installation directory.

2. Enter the Guardian Headless command.

– **On Windows:**

```
guardianHeadless.cmd
```

– **On Linux:**

```
guardianHeadless.sh
```

3. (Optional) To see a list of CLI commands and their syntax, enter the CLI Help command at the operating system prompt.

- **On Windows:**

```
guardianHeadless.cmd -ghelp
```

- **On Linux:**

```
guardianHeadless.sh -ghelp
```

**Note:** Each command must include the prefix **-g** with no trailing space, as shown in the following example:

```
guardianHeadless.cmd -glistActiveDomains
```

The output file is created in your current directory, and is overwritten each time you run a Guardian Headless Mode command. For instructions on redirecting this to a different file, see [Redirecting Guardian CLI Command Output](#).

For a complete description of Guardian Command Line Interface commands, their use, and syntax, see [Command Line Interface](#) in [Chapter 3, “Reference.”](#)

## Redirecting Guardian CLI Command Output

Below are instructions for redirecting Guardian Headless Mode command output on Windows and Linux platforms, respectively.

### On Windows:

On Windows, the command output is written to the following output file:

```
headless_output.txt
```

The output file is created in your current directory, and is overwritten each time you run a Guardian Headless Mode command.

On Windows, you can change the name of this file by editing the following line in the **guardianHeadless.cmd** script:

```
guardian.exe -noSplash -application
com.bea.support.guardian.ui.headless.Headless %command% %arg1% %val1%
%arg2% %val2% %arg3% %val3% %arg4% %val4% %arg5% %val5% %arg6% %val6% %arg7%
%val7% > headless_output.txt 2>&1
```

Replace the string **headless\_output.txt** at the end of this line with the new filename.

For example:

```
guardian.exe -noSplash -application  
com.bea.support.guardian.ui.headless.Headless %command% %arg1% %val1%  
%arg2% %val2% %arg3% %val3% %arg4% %val4% %arg5% %val5% %arg6% %val6% %arg7%  
%val7% > MyOutputFile.txt 2>&1
```

### On Linux:

On Linux, by default Guardian CLI command output is directed to `stdout` and `stderr`, and can be redirected in the usual manner by using the “pipe” (`|`) operator. Please refer to your Linux operating system documentation for instructions.

## Run Scripts

You can create a Guardian Command Line script containing a series of Guardian Command Line Interface commands. You can schedule scripts to run at specified times and intervals by using utilities such as the Windows Task Scheduler or the Linux **crontab** command.

For a complete description of Guardian Command Line Interface commands, their use, and syntax, see [Command Line Interface](#) in [Chapter 3, “Reference.”](#)

To run a script, enter the following command at the operating system prompt:

- **On Windows:**

```
guardianHeadless.cmd -gscript -f <script_name>
```

- **On Linux:**

```
guardianHeadless.sh -gscript -f <script_name>
```

Where:

<script\_name> is the path and name of your CLI script.



## Viewing CLI Script Results

On Windows, the output for CLI commands is written to the following output file:

```
headless_output.txt
```

The output file is created in your current directory, and is overwritten each time you run a Guardian Headless Mode command. For instructions on redirecting command output, see [Redirecting Guardian CLI Command Output](#).

For inventory and evaluation operations, the resulting Domain Inventory or Evaluation Summary document is saved in the appropriate **History** folder in your Guardian Workspace, and an entry is added to the appropriate **History** folder in the **Domain Explorer** tree. These can be viewed using the **Domain Explorer**, just as you would view any other Domain Inventory or Evaluation Summary document.

To view a Domain Inventory or Evaluation Summary document, do the following:

1. Open the Guardian User Interface and click the **Domain Explorer** tab to open the **Domain Explorer**.
2. Open the **History** folder containing the document you want to view.
3. Select the document to view the contents in the Document Pane.

For a complete description of the **Domain Explorer**, see [Domain Explorer](#) in [Chapter 3](#), “Reference.”

## Schedule Scripts

To schedule a script to run automatically at a specified time, you can use utilities such as the Windows Task Scheduler or the Linux **crontab** command. For instructions on scheduling scripts, see your operating system documentation.

## Receive Notifications

To receive notification of detected signatures, create an evaluation script and use the Windows Task Scheduler or the Linux **crontab** command to schedule the script to run at regular intervals. Each time the script runs, the `signature.log` file in the Guardian installation directory is updated with an entry for each detected signature. You can configure a third party management tool to scan the log for detected signatures, and notify you when one is found.

Each `signature.log` entry starts with four number signs (####) and includes a timestamp for the entry. Each entry with a detected signature contains the label `<detected>` and is followed by a brief description which is also surrounded by angle brackets. The description includes the domain name.

The following is a sample `signature.log` file:

```
####<Tue Aug 01 16:03:47 EDT 2006> <0> <g-dev_slp7_7001> <un> <0> <000022>
<not detected> <Signature 000022 (Rotational Upgrade may cause
java.io.StreamCorruptedException) not detected by username un evaluating
bundle ID 0 in domain ID g-dev_slp7_7001.>
####<Tue Aug 01 16:03:47 EDT 2006> <0> <g-dev_slp7_7001> <un> <0> <000027>
<detected> <Signature 000027 (Native IO should be enabled in production mode
for better performance) detected by username un evaluating bundle ID 0 in
domain ID g-dev_slp7_7001.>
####<Tue Aug 01 16:03:47 EDT 2006> <0> <g-dev_slp7_7001> <un> <0> <000055>
<not detected> <Signature 000055 (JDK 1.5 is not certified for WebLogic 8.1)
not detected by username un evaluating bundle ID 0 in domain ID
g-dev_slp7_7001.>
```

# Troubleshooting

This section provides instructions for the following tasks:

- [View Logfiles](#)
- [Crash Recovery](#)
- [Resolve Exceptions](#)

## View Logfiles

The Oracle Guardian log files contain information that Oracle Customer Support can use to diagnose and resolve issues with your system.

The Guardian log files are as follows:

- `guardian.log` — This is located in the Guardian installation directory you specified during installation. This file contains information about every operation the Guardian application performs.
- `signature.log` — This is located in the Guardian installation directory you specified during installation. This file contains information about each evaluation performed, including entries for all detected signatures. You can also use a command line script to automatically scan the `signature.log` for detected signatures, and automatically notify you when new signatures are detected.
- `.log` — This is located in the `.metadata` subdirectory of the Guardian Workspace directory you specified when starting Guardian. This file contains information about certain Guardian operations.
- `install.log` — This is located in the `../configuration/org.eclipse.update` subdirectory of the Guardian installation directory you specified during installation. This contains Guardian installation details.

## Crash Recovery

Guardian crashes are extremely unlikely, since Guardian uses the Eclipse Rich Client Platform. If Guardian does crash, simply restart Guardian. No additional cleanup operations are required.

## Resolve Exceptions

In the unlikely event of an exception, the recommended steps for resolving the issue are as follows:

1. Read the text of the error message to determine what is wrong.
2. Save the **Exception Error** window text with a screen capture, or cut and paste the text into a file.
3. Try the operation again to see if the issue recurs.
4. Copy the Oracle Guardian log files to another location and save them for future reference
5. Contact Oracle Support for assistance

---

**Tip:** To save log files, copy them to another location so that the error is among the last entries in the log file, making it easier to identify. For the location of Guardian log files, see [View Logfiles](#).

---

## Support

This section provides instructions for the following task:

- [Creating a Service Request Archive](#)

### Creating a Service Request Archive

You can use the **Service Request Wizard** to create a service request archive based on a detected signature, and save the service request information as an archive file that you can send to Oracle Customer Support. Service request archives are stored as files with a `.car` file name extension.

The wizard automatically creates the service request with all of the signature-specific information required for an Oracle support engineer to begin working on your service request upon receipt of the archive. You can also add any additional attachments and notes before sending the service request archive to Oracle.

To create service request, do the following:

1. Open the Evaluation Summary containing the signature you want to include in the service request.

- a. Click the **Domain Explorer** tab to open the **Domain Explorer**.
  - b. Open the **Evaluation History** folder for the domain in which the signature was detected.
  - c. Double-click on the entry for the Evaluation Summary containing the detected signature you want to report. This opens the Evaluation Summary View in the Document Pane.
2. Select the signature you want to include in the service request.

Click on a signature entry to highlight it. This displays the **Description** and **Remedy** for the signature in the bottom portion of the **Evaluation Summary** display in the Document Pane.

3. Open the **Service Request Wizard**.

Click the **Get more help from Oracle support** link at the bottom of the signature **Remedy** section to open the wizard. This automatically includes the signature contents in the new service request, and displays the first page of the **Service Request Wizard**, which is the **Service Request Notes** page.

4. (Optional) Enter any additional service request notes.

In the **Additional Service Request Notes** field, enter any additional text that may be helpful to Oracle Customer Support in resolving your service request.

5. Click **Next** to proceed to the **Select Service Request Attachments** page.
6. Select the background information files to include with the service request. You can select one or more of the following:
  - **Service Request Attachments:**
    - **Domain Inventory**
    - **Detected Signature Results**
  - **Recommended Attachments:**
    - **Server Log**
  - **Other Attachments:**
    - Click the **+** icon to open a file browser from which you can select files to include.
    - Click the **X** icon to remove a file from the list.
7. Click **Next** to proceed to the **Domain Login** page.
8. Enter the credentials for the WebLogic Server for the selected domain.

In the **Domain Credentials** section, enter the following:

- **Username:** This is the username for the WebLogic Server Administrator or Monitor account on the target domain.
- **Password:** This is the password for the WebLogic Server Administrator or Monitor account on the target domain.

If you selected multiple domains, you must supply the login credentials for each domain before you can launch the Evaluation.

9. (Optional) Select the **Remember username/password** checkbox to save your login credentials for the selected domain(s).

Select this option if you want your login information to persist so that you do not have to enter it each time you submit a service request.

10. Click **Next** to proceed to the **Select Service Request Archive Destination** page.

11. In the **Select Archive Location** field, save the service request as an archive for uploading later. Enter the location to which to save the file, or click the ellipsis (...) to open a file browser from which you can select the location.

12. Click **Finish** to create the service request archive.

A **Service Request Creation Complete** dialog box displays the date, time, and location of the file.

13. Click **OK**.

This closes the wizard and returns to the Guardian main window.

## Updates and Upgrades

This section provides instructions for the following tasks:

- [Automatically Update Guardian](#)
- [Manually Update Guardian](#)
- [Check Product Configuration](#)

**Note:** If you are using a proxy server for outbound Guardian communications, make sure that you have enabled and tested the outbound proxy connection. For instructions, see [Enable and Test Outbound Proxy](#).

## Automatically Update Guardian

To update Guardian, use the **Update Wizard** to download new Oracle Guardian software and signatures from the Oracle Guardian update site, <http://guardian.bea.com/update>.

To update Guardian, do the following:

1. Open the **Update Wizard**.

Use one of the following methods to open the wizard:

- Press **Ctrl+Shift+U**.
- Click the **Update** button on the Main toolbar.
- Select **Help > Software Updates > Guardian Updates**.

2. Enter your My Oracle Support **Username** and **Password** to access your Customer Support Identifiers.

3. (Optional) Select the **Remember Username/Password** checkbox to store your login credentials for future use.

Select this option if you want your login information to persist so that you do not have to enter it each time you create a service request.

4. Click **Next** to proceed to the **Select CSI** (Customer Support Identifiers) page.

5. Select your **CSI** from the menu and click **Finish** to search for updates.

6. On the **Search Results** page, expand the folders in the **Select the features to install** tree to see the available selections.

To select features, do the following:

- a. (Optional) To filter the results, you can select from the following filter options:

- **Show the latest version of a feature only** to display only the current version of each feature in the results.
- Select **Filter patches included in other patches on the list** to filter out duplicate patch entries.

- b. (Optional) Click **More Info** to see details about a selection.

- c. (Optional) Click **Properties** to display the properties for a selection.

- d. (Optional) Click **Select Required** to automatically select all required updates.

- e. Click the checkbox beside a feature name to select/deselect it.
7. Click **Next** to proceed to the **Feature License** page.  
Accept the terms in the license agreement to proceed with the installation.
8. Click **Next** to proceed to the **Installation** page.
9. Select the installation location, or accept the default.  
Click **Change Location** to open a directory browser from which you can select the location. Click **OK** to enter your selection and close the browser. Click **Next** to proceed.
10. Verify the list of features to install, and click **Install** or **Install All**.  
After the updates are installed, you are prompted as to whether to restart Guardian.
11. Click **Yes** to restart Guardian and incorporate the new features.



## Manually Update Guardian

To update Guardian on servers that do not have Internet access, or to upgrade from Guardian 1.0.x to Guardian 1.1.0, you can perform a manual update. To do so, first automatically update Guardian on a server that has Internet access, and then copy the updated files to the server(s) without access.

**Note:** To upgrade from Guardian 1.0.x to Guardian 1.1.0, you must perform a manual update. You cannot use the **Update Wizard** to upgrade in this case. However, to upgrade from Guardian 1.1.x to Guardian 10g R3 (10.3.1), you can still use the **Update Wizard**.

**WARNING:** If you are upgrading from Guardian 1.0.x to Guardian 1.1.0 and want to preserve your Guardian Registry, you must first back up and then manually update the Guardian Registry. For instructions, see [Manually Update Guardian Registry](#). Please also refer to the *Guardian 1.1 Installation Guide* and *Guardian 1.1 Release Notes* for additional important information.

To manually update Guardian, do the following;

1. Automatically update Guardian on a server that has Internet access.

For instructions, see [Automatically Update Guardian](#).

2. Shut down Guardian on the offline server(s).

Select **File > Exit** from the titlebar menu.

3. Update the Guardian Signatures Repository on the secure (offline) machine.

Copy the following directory and all of its contents from the updated server to the offline server(s) you want to update, overwriting the old contents:

```
<..>\guardian\repository\archives
```

Where:

<..> is the parent directory of the Guardian installation root directory. The Guardian installation root directory is named `guardian`.

**Note:** If you only want to update the Guardian Signatures Repository but not the Guardian application itself, you can skip the remainder of these steps.

4. (Optional) Remove the old Signature Features directories from the offline server(s).

The Signature Features directories are kept in the following directory:

```
<..>\guardian\features\
```

Where:

`<.>` is the parent directory of the Guardian installation root directory. The Guardian installation root directory is named `guardian`.

The Signature Features directories are named according to the following convention:

```
com.bea.guardian.feature.signature.weblogic_<old_version>
```

Where:

`<old_version>` is the old signature release version.

For example:

```
..\guardian\features\com.bea.guardian.feature.signature.weblogic_1.0.42
```

5. Copy the updated Signatures Features directory to the offline server(s).

Copy the following directory and all of its contents from the updated machine to the offline server(s):

```
..\guardian\features\com.bea.guardian.feature.signature.weblogic_<CurVersion>
```

Where:

`<.>` is the parent directory of the Guardian installation root directory. The Guardian installation root directory is named `guardian`.

`<CurVersion>` is the most current signature release version.

6. (Optional) Remove the old Signature Plug-ins JAR files from the offline server(s).

The Signature Plug-ins JAR files reside in the following directory:

```
<.>\guardian\plugins\
```

Where:

`<.>` is the parent directory of the Guardian installation root directory. The Guardian installation root directory is named `guardian`.

The files are named according to the following convention:

```
com.bea.guardian.signature.weblogic_<old_version>
```

Where:

`<old_version>` is the old signature release version.

7. Copy the updated Signatures Plug-ins file to the offline server(s).

Copy the following file from the updated machine to the offline server(s):

```
..\guardian\plugins\com.bea.guardian.signature.weblogic_<CurVersion>
```

Where:

<. .> is the parent directory of the Guardian installation root directory. The Guardian installation root directory is named `guardian`.

<CurVersion> is the most current signature release version.

8. Restart Guardian on the newly-updated offline servers.
9. Check the new configuration.
 

Do the following:

  - a. Select **Help > Manage Guardian** to open the **Product Configuration** page.
  - b. In the Product Configuration tree (left pane), expand the **Oracle Guardian** folder and subfolders.
  - c. Check the version numbers for each item.

## Manually Update Guardian Registry

If you are upgrading from Guardian 1.0.x to Guardian 1.1, you must manually update the Guardian Registry. For instructions, please see the *Guardian 1.1 Installation Guide* and the *Guardian 1.1 Release Notes*.

## Check Product Configuration

You can use the **Product Configuration** page to check the current configuration for a Guardian installation. This is especially useful if you have manually updated Guardian and want to check that the update was completed correctly.

To check the current Guardian configuration, do the following:

1. Select **Help > Manage Guardian** to open the **Product Configuration** page.
2. In the **Product Configuration** tree (left pane), expand the **Guardian** folder and subfolders.
3. Check the version numbers for each item.

## Tasks

# Reference

This chapter provides a detailed description of the Guardian User Interface components and features, and a detailed reference guide to the Guardian Command Line Interface. Topics include the following:

- [Main Menu Bar](#)
- [Main Toolbar](#)
- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Log Files](#)
- [Command Line Interface](#)

## Main Menu Bar

The Main Menu Bar is at the top of the Oracle Guardian main window just below the Oracle Guardian titlebar. The Menu Bar contains the following menus:

- [File Menu](#)
- [Edit Menu](#)
- [Tools Menu](#)
- [Window Menu](#)
- [Help Menu](#)

The Menu Bar menus in turn contain a series of options and submenus, some of which also lead to additional menus, dialog boxes, or wizards. The following sections provide a description of each of these menus, and instructions for invoking them.

## Keyboard Shortcuts

You can invoke many menus, submenus, and menu options by using a keyboard shortcut. To display Menu Bar menus, press the **Alt** key and type the menu selection key for the menu you want to display. The menu selection key is the letter underlined in the menu name in the Menu Bar when you press the **Alt** key.

Some menu options also have keyboard shortcuts, which consist of a specific sequence of characters pressed simultaneously. If a menu item has a keyboard shortcut, the key sequence is listed next to the item in the menu. To see the complete list of keyboard shortcuts, press **Ctrl+Shift+L**.

## File Menu

Table 3-1 describes the **File** menu options and submenus.

**Table 3-1 File Menu**

Menu Item	Description
<b>New &gt;</b>	This option opens a submenu with the following options: <ul style="list-style-type: none"> <li>• <b>Domain Group</b> — Open the <b>Add Domain Group</b> dialog box for creating a new Domain Group.</li> <li>• <b>Domain</b> — Open the <b>Domain Activation Wizard</b>.</li> <li>• <b>Inventory</b> — Open the <b>Inventory Wizard</b>.</li> <li>• <b>Evaluation</b> — Open the <b>Evaluation Wizard</b>.</li> <li>• <b>Shortcut</b> — Open the <b>Shortcut Wizard</b>.</li> </ul>
<b>Open File...</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application.
<b>Open</b>	Open the selected item. Select an item in the Navigation Pane, and then select <b>File &gt; Open</b> to display the contents for that item in the Document Pane.
<b>Close</b>	Close the current display in the Document Pane.
<b>Close All</b>	Close all Document Pane displays.
<b>Save As...</b>	Export the selected Domain Inventory or Evaluation as a file (PDF or HTML).
<b>Print</b>	Print the contents of the <b>Report</b> tab or <b>Source</b> tab currently displayed in the Document Pane.
<b>Import</b>	Open the <b>Import</b> dialog box for importing Guardian Preferences, Workspace, or Report Plug-in.
<b>Export</b>	Open the <b>Export</b> dialog box for exporting Guardian Preferences, Workspace, or Report Plug-in.
<b>Exit</b>	Exit Guardian.

## Edit Menu

[Table 3-2](#) describes the **Edit** menu options.

**Table 3-2 Edit Menu**

Menu Item	Description
<b>Cut</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application. Use <b>Ctrl+X</b> for cut operations, where applicable.
<b>Paste</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application. Use <b>Ctrl+V</b> for paste operations, where applicable.

## Tools Menu

[Table 3-3](#) describes the **Tools** menu options and submenus.

**Table 3-3 Tools Menu**

Menu Item	Description
<b>Purge Inactive Domains</b>	Remove deactivated domains from the <b>Domain Explorer</b> and the Guardian Registry. This also removes from the Guardian Workspace any Domain Inventories, Evaluation Summaries, and Service Request Archives for those domains.
<b>Modify Domain</b>	Modify the selected domain. Opens the <b>Domain Properties</b> dialog box, where you can reconfigure the properties for the selected domain.
<b>Deactivate</b>	This opens the <b>Domain Deactivation Wizard</b> for the selected domain.
<b>View Log &gt;</b>	This opens a submenu with the following options: <ul style="list-style-type: none"> <li><b>Signature Log</b> — Display the Guardian Signature log file.</li> <li><b>Guardian Log</b> — Display the Guardian log file.</li> </ul>



## Window Menu

Table 3-4 describes the **Window** menu options and submenus.

**Table 3-4 Window Menu**

Menu Item	Description
<b>Show View &gt;</b>	<p>This opens a submenu containing the following options:</p> <ul style="list-style-type: none"> <li>• <b>Domain Explorer</b> — Opens the <b>Domain Explorer</b> in the Navigation Pane.</li> <li>• <b>Bundle Explorer</b> — Opens the <b>Bundle Explorer</b> in the Navigation Pane.</li> <li>• <b>Shortcut Explorer</b> — Opens the <b>Shortcut Explorer</b> in the Navigation Pane.</li> <li>• <b>Signature Explorer</b> — Opens the <b>Signature Explorer</b> in the Navigation Pane.</li> <li>• <b>Active Domains Table</b> — Opens the <b>Active Domains Table</b> in the Document Pane.</li> <li>• <b>Shortcuts Table</b> — Opens the <b>Shortcuts Table</b> in the Document Pane.</li> <li>• <b>Progress View</b> — Opens the <b>Progress View</b> below the Navigation Pane.</li> <li>• <b>Outline View</b> — Opens the <b>Outline View</b> to the right of the Document Pane.</li> </ul>
<b>Working Sets &gt;</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application.
<b>Reset Perspective</b>	Reset the Guardian displays to their default settings.
<b>Preferences...</b>	This opens the <b>Preferences</b> page.

## Help Menu

Table 3-5 describes the **Help** menu options and submenus.

**Table 3-5 Help Menu**

Menu Item	Description
<b>Help Contents</b>	This opens the Oracle Guardian Online Help System.
<b>Search</b>	This opens the Online Help <b>Search</b> utility.
<b>Dynamic Help</b>	This opens the Guardian Dynamic Online Help pane (to the right of the Document Pane).
<b>Cheat Sheet...</b>	This opens the <b>Cheat Sheet Selection</b> dialog box for selecting and displaying a Guardian Cheat Sheet (to the right of the Document Pane). The Cheat Sheet provides step-by-step instructions for basic Guardian tasks. Action buttons are provided for some tasks; click a button to initiate that task.
<b>Manage Guardian &gt;</b>	<p>This opens a submenu with the following options:</p> <ul style="list-style-type: none"> <li>• <b>Update Guardian</b> — Open the <b>Update Wizard</b>.</li> <li>• <b>Manage Configuration</b> — Open the <b>Product Configuration Manager</b> for performing the following tasks: <ul style="list-style-type: none"> <li>– <b>Scan for Updates</b></li> <li>– <b>View Installation History</b></li> <li>– <b>Show Activities</b></li> <li>– <b>Add an Extension Location</b></li> </ul> </li> </ul>
<b>Key Assist...</b>	Display the list of keyboard shortcuts.
<b>About Oracle Guardian</b>	Open the <b>About Oracle Guardian</b> dialog box. This displays the version of your current Guardian installation, and details about Guardian features, plug-ins, and configuration.

# Main Toolbar

The Main Toolbar is located below the Main Menu Bar, and contains action buttons for the most common Guardian tasks. You can roll your mouse pointer over a button to display the tool tip text for that button.

[Table 3-6](#) describes the Main Toolbar buttons.

**Table 3-6 Guardian Main Toolbar Buttons**

Button	Description
<b>Open</b>	<p>Display the selected resource in the Document Pane.</p> <ul style="list-style-type: none"> <li>• Opens the <b>Active Domain Table</b> when <b>Target Domains</b> is selected in the <b>Domain Explorer</b>.</li> <li>• Opens the <b>Domain Inventory</b> view when a Domain Inventory is selected in the <b>Domain Explorer</b>.</li> <li>• Opens the <b>Evaluation Summary</b> view when an Evaluation Summary is selected in the <b>Domain Explorer</b>.</li> <li>• Opens the <b>Signature</b> view when a signature is selected in the <b>Signature Explorer</b> or <b>Bundle Explorer</b>.</li> <li>• Opens the <b>Signature Bundle</b> view when a Bundle is selected in the <b>Bundle Explorer</b>.</li> <li>• Opens the <b>Evaluation Wizard</b> when a Shortcut is selected in the <b>Shortcut Explorer</b>.</li> </ul>
<b>Print</b>	Print the contents of the <b>Report</b> tab or <b>Source</b> tab currently displayed in the Document Pane.
<b>Activate</b>	Open the <b>Domain Activation Wizard</b> .
<b>Inventory</b>	Open the <b>Inventory Wizard</b> .
<b>Evaluate</b>	Open the <b>Evaluation Wizard</b> .
<b>Update</b>	Open the <b>Update Wizard</b> .

## Context Menus

Many views and displays contain context menus. Right-click on an item or anywhere in a display to open the associated context menu.

### Related Tasks

- [Basic Tasks](#)
- [Domains](#)
- [Command Line Interface](#)
- [Automatically Update Guardian](#)

### Related Reference

- [Keyboard Shortcuts](#)
- [Explorer Context Menus](#)
- [Document View Context Menus](#)
- [Main Menu Bar](#)
- [Main Toolbar](#)
- [Navigation Pane](#)
- [Document Pane](#)

# Navigation Pane

The Navigation Pane resides in the left side of the Oracle Guardian main window. The Navigation Pane contains several tabs leading to Explorer Views. You can have multiple Views open at once, but only one can be displayed at a time. Click on a tab to display that Explorer View.

The following section provides an overview of Navigation Pane elements.

## Navigation Pane Elements

Navigation Pane elements include the following:

- [Explorer Views](#)
- [Explorer Toolbar Icons](#)
- [Explorer Toolbar Menus](#)
- [Explorer Context Menus](#)

The following sections describe each of these elements.

## Explorer Views

At the top of the Navigation Pane are the Explorer View tabs. Select a tab to display that View. [Table 3-7](#) provides an overview of the Navigation Pane Explorer Views.

**Table 3-7 Navigation Pane Explorer Tabs**

Explorer Tab	Description
<b>Domain Explorer</b>	Open the <b>Domain Explorer</b> . This View enables you to browse, manage, and monitor the domains you have defined in Guardian. Right-click in the <b>Domain Explorer</b> to open a context menu of domain operations. For a complete description, see <a href="#">Domain Explorer</a> . For instructions on <b>Domain Explorer</b> tasks, see <a href="#">Domains</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Signature Explorer</b>	Open the <b>Signature Explorer</b> . This View enables you to browse the available signatures and view the contents of a selected signature. For a complete description, see <a href="#">Signature Explorer</a> . For instructions on <b>Signature Explorer</b> tasks, see <a href="#">Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a>









**Table 3-7 Navigation Pane Explorer Tabs**

Explorer Tab	Description
<b>Bundle Explorer</b>	Open the <b>Bundle Explorer</b> . This View enables you to browse the available Signature Bundles and their contents. For a complete description, see <a href="#">Bundle Explorer</a> . For instructions on <b>Bundle Explorer</b> tasks, see <a href="#">Bundles</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Shortcut Explorer</b>	Open the <b>Shortcut Explorer</b> . This View enables you to view and manage your Evaluation Shortcuts. For a complete description, see <a href="#">Shortcut Explorer</a> . For instructions on <b>Shortcut Explorer</b> tasks, see <a href="#">Shortcuts</a> in <a href="#">Chapter 2, “Tasks.”</a>

## Explorer Toolbar Icons

Below each Explorer tab titlebar is the Explorer toolbar. An Explorer toolbar may contain all or some of the following active icons:

**Table 3-8 Explorer Toolbar Icons**

Icon	Function
	Close
	Minimize
	Maximize
	Restore. This icon is available only if the View has been maximized.
	Expand all items.
	Collapse all items.
	Open Explorer menu.
	Link with Editor. This links the Navigator Pane Tree to the Document Pane View. The current active Document View name is then also selected (highlighted) in the Navigator Pane.

## Explorer Toolbar Menus

The **Domain Explorer**, **Signature Explorer**, and **Bundle Explorer** each contain a menu icon in the right corner of the toolbar. Click the menu icon to open a menu of display options for that Explorer.

[Table 3-9](#) describes the Explorer menus.

**Table 3-9 Explorer Menus**

Explorer	Menu Options
<b>Domain Explorer</b>	<p>The <b>Domain Explorer</b> menu contains the following options:</p> <ul style="list-style-type: none"> <li>• <b>Filter Domain Explorer</b> — Open the <b>Filter Domain Explorer</b> dialog box to filter inventories and evaluations by date created.</li> <li>• <b>Link with Editor</b> — Link the Navigator Pane Tree to the Document Pane View. If you have multiple Document Views open in the Document Pane, the Explorer Tree tracks which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Explorer Tree.</li> </ul>
<b>Signature Explorer</b>	<p>The <b>Signature Explorer</b> menu contains the following options:</p> <ul style="list-style-type: none"> <li>• <b>Sort Signatures &gt;</b> — This opens a submenu of the following options for sorting signatures in the <b>Signature Explorer</b>: <ul style="list-style-type: none"> <li>– <b>By Name</b></li> <li>– <b>By Severity</b></li> </ul> </li> <li>• <b>Filters...</b> — Open the <b>Filters Wizard</b>, for specifying which signatures to include in signature displays. For instructions, see <a href="#">Filter Signatures in Chapter 2, “Tasks.”</a></li> <li>• <b>Link with Editor</b> — Link the Navigator Pane Tree to the Document Pane View. If you have multiple Document Views open in the Document Pane, the Explorer Tree tracks which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Explorer Tree.</li> </ul>



Table 3-9 Explorer Menus

Explorer	Menu Options
<b>Bundle Explorer</b>	<p>The <b>Bundle Explorer</b> menu contains the following options:</p> <ul style="list-style-type: none"> <li>• <b>Filters...</b> — Open the <b>Filters Wizard</b>, for specifying which signatures to include in signature displays. For instructions, see <a href="#">Filter Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a></li> <li>• <b>Sort Signatures &gt;</b> — This opens a submenu of the following options for sorting Bundles and signatures in the <b>Bundle Explorer</b>: <ul style="list-style-type: none"> <li>– <b>By Bundle Name, Signature Name</b></li> <li>– <b>By Bundle Name, Severity</b></li> </ul> </li> <li>• <b>Link with Editor</b> — Link the Navigator Pane Tree to the Document Pane View. If you have multiple Document Views open in the Document Pane, the Explorer Tree tracks which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Explorer Tree.</li> </ul>

## Explorer Context Menus

Right-click in an Explorer View to display the context menu of tasks and operations you can perform from that View. You can also right-click on a specific item to select it and open the context menu for that item. Menu options that do not apply to your selection are deactivated.

For a detailed description of a specific context menu, see the appropriate section listed below:

- [Domain Explorer Context Menu](#)
- [Signature Explorer Context Menu](#)
- [Bundle Explorer Context Menu](#)
- [Shortcut Explorer Context Menu](#)

## Domain Explorer

The **Domain Explorer** is a Navigator View that enables you to browse, manage, and monitor the domains you have activated in Guardian. In the Navigation Pane, select the **Domain Explorer** tab to display the explorer.

The following table provides an overview of **Domain Explorer** elements:

**Table 3-10 Domain Explorer Elements**

Element	Description
<b>Target Domains Folder</b>	<p>This is the top-level folder in the Domain Explorer <b>Target Domains</b> tree. This folder contains a unique <i>Domain Node</i> for each domain activated in Guardian. Open the folder to see the available nodes. Double-click on the <b>Target Domains</b> folder to display the <b>Active Domains Table</b> in the Document Pane.</p> <p>See also <a href="#">“Active Domains Table” on page 3-158</a>.</p>
<b>Domain Nodes</b>	<p>These represent domains you have activated in Guardian. Open the <b>Target Domains</b> folder to see the available nodes.</p> <p>For more information, see <a href="#">Domain Nodes</a>.</p>
<b>Domain History Folders</b>	<p>These contain the Domain Inventories and Evaluation Summaries for a domain. Each Domain Node contains the following two <b>History</b> folders:</p> <ul style="list-style-type: none"> <li>• <b>Inventory History</b></li> <li>• <b>Evaluation History</b></li> </ul> <p>For more information, see <a href="#">“Domain History Folders” on page 3-113</a>.</p>

**Table 3-10 Domain Explorer Elements**

Element	Description
<b>Domain Explorer Menu</b>	<p>Click the <b>Domain Explorer</b> menu icon to display a menu containing the following options:</p> <ul style="list-style-type: none"> <li>• <b>Filter Domain Explorer</b> — Opens the <b>Filter Domain Explorer</b> dialog box for filtering out older Inventories and Evaluations from the <b>Domain Explorer</b> tree.</li> <li>• <b>Link with Editor</b> — Link the Navigator Pane Tree to the Document Pane View. If you have multiple Document Views open in the Document Pane, the Explorer Tree tracks which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Explorer Tree.</li> </ul> <p>For more information, see <a href="#">“Domain Explorer Toolbar Menu” on page 3-114</a>.</p>
<b>Domain Explorer Context Menu</b>	<p>Right-click on an item in the <b>Domain Explorer</b> to display a context menu of domain and Domain Group operations.</p> <p>For more information, see <a href="#">“Domain Explorer Context Menu” on page 3-115</a>.</p>

## Domain Nodes

A *domain node* represents a domain that has been activated (defined and enabled for evaluation) in Guardian. When you activate a domain for the first time in Guardian, a node for the new domain is added to the **Target Domains** folder in the **Domain Explorer** tree. A unique name is automatically generated for the new domain, based upon your entries in the **Domain Activation Wizard**.

The generated name has the following syntax:

```
<domain_name>_<hostname>_<listen-port>
```

Where:

- *<domain\_name>* is the name for this domain.
- *<hostname>* is the listen address (hostname) for the WebLogic Administration Server for this domain. This is the hostname you entered in the **Hostname** field of the **Domain Activation Wizard** (for example, **localhost**).
- *<listen-port>* is the listen port for the WebLogic Administration Server for this domain.

For example:

```
wl_server_localhost_7001
```

**Note:** In the Command Line Interface, the domain node name is referred to as the *domainId* for the domain.

The **Domain Explorer** tree displays only the active Domain Nodes. “Active” does not refer to the state of the domain servers themselves, but rather to whether you have enabled that domain for evaluation. If you deactivate a domain in Guardian, that domain is removed from the **Domain Explorer** tree. However, if you reactivate the domain, the node for that domain is again displayed, and the original contents of the **History** folders are also again available. Deactivating a domain does not remove the Workspace data for that domain.




## Domain Node Icon and Icon Decorations

The **Domain Explorer** displays only the active Domain Nodes. In the **Domain Explorer** tree, active domains have a blue node icon to the left of the domain name. Icon decorations indicate whether the username and password have been persisted, and whether the domain requires SSL encryption for all communication.

**Note:** Oracle recommends using SSL encryption for communication between the client and the Guardian Agent. Guardian uses 128 bit open source encryption for SSL. However, the configuration on the server for the domain determines whether or not Guardian will use 128 bit SSL encryption when activating that domain.

The following table describes the Domain Node icon and icon decorations.

**Table 3-11 Domain Node Icons and Icon Decorations**

Icon/Decoration	Type	Meaning
	Icon	Indicates this is an active domain node.
	Decoration	Indicates the username and password have been persisted. Applied to active icons only.
	Decoration	Indicates the domain requires 128 bit SSL. Applied to active icons only.

## Domain History Folders

Domain Inventories and Evaluation Summaries for a domain are accumulated in **History** folders, which persist on disk in your Guardian Workspace. These are represented as folder icons below each Domain Node in the Domain Explorer **Target Domains** tree. Each Domain Node contains the following two **History** folders:

- [Inventory History Folder](#)
- [Evaluation History Folder](#)

The following sections describe each of these folders.

### Inventory History Folder

The **Inventory History** folder contains the Domain Inventories that have been generated for that domain. Double-click on a Domain Inventory name to display the inventory details in the Document Pane.

Each time you activate, evaluate, or inventory a domain, a new Domain Inventory is created and added to the **Inventory History** folder for that domain. A unique name is generated for each new Inventory, using this format:

```
<domain_name>_<hostname>_<listen_port>_<date> <time>.
```

See also “[Domain Inventory](#)” on page 1-25 in “[About Oracle Guardian](#),” and “[Domain Inventory View](#)” on page 3-136 in “[Reference](#).”

### Evaluation History Folder

The **Evaluation History** folder contains the Evaluation Summaries that have been generated for that domain. Double-click on an Evaluation Summary name to display the evaluation details in the Document Pane.





Each time you evaluate a domain, a new Evaluation Summary is created and added to the **Evaluation History** folder for that domain. A unique name is generated for each new Inventory, using this format:

```
<bundle_name>_<date> <time>
```

Each Evaluation Summary listed in the **Evaluation History** folder has an icon indicating whether any signatures were detected. If any signatures were detected, the icon is decorated with a severity indicator. The detected signature with the highest severity determines the severity of the Evaluation Summary.

The following table describes the Evaluation Summary icons.

**Table 3-12 Evaluation Summary Icons**

Icon	Severity	Meaning
	Critical	The evaluation detected at least one critical signature.
	Warning	The evaluation detected at least one warning signature and no critical signatures.
	Informational	The evaluation detected at least one informational signature and no critical or warning signatures.
	No Detected Signatures	The evaluation did not detect any signatures.

## Domain Explorer Toolbar Menu

Click the **Domain Explorer** toolbar menu icon to display a menu containing the following options:

**Table 3-13 Domain Explorer Toolbar Menu Options**

Option	Description
<b>Filter Domain Explorer</b>	This opens the Filter <b>Domain Explorer</b> dialog box. Use this to filter out older Domain Inventories and Evaluation Summaries from the <b>Domain Explorer</b> tree.
<b>Link with Editor</b>	Link the Navigator Pane Tree to the Document Pane View. When enabled, if you have multiple Document Views open in the Document Pane, the Explorer Tree in the Navigator Pane will track which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Navigator Pane.

## Domain Explorer Context Menu

You can use either of the following methods to open the **Domain Explorer** context menu:

- To apply a menu option to a specific object, right-click the object in the Domain Explorer tree and then select the option from the context menu.
- To open the context menu without preselecting an object, right-click in an empty area in the Domain Explorer display.

The following table describes the Domain Explorer context menu options.

**Table 3-14 Domain Explorer Context Menu Options**

Option	Description
<b>Delete</b>	Delete the selected Domain Inventory, or Evaluation Summary. This deletes the selected entry from the Domain Explorer as well as the associated files from your Guardian Workspace. A confirmation box prompts you to confirm or cancel the operation.
<b>Activate</b>	This opens the <b>Domain Activation Wizard</b> . If the domain is already activated, this option is disabled. For details, see <a href="#">Domain Activation Wizard</a> .
<b>Deactivate</b>	This opens the <b>Domain Deactivation Wizard</b> . If the domain is already deactivated, this option is disabled. For details, see <a href="#">Domain Deactivation Wizard</a> .
<b>Modify Domain</b>	This opens the <b>Domain Properties</b> dialog box for the selected domain. You can then modify the property settings for that domain. For details, see <a href="#">Domain Properties Dialog Box</a> .
<b>Inventory</b>	This opens the <b>Inventory Wizard</b> for the selected domain. If no domain is selected, you can select one from the domain list in the wizard. For details, see <a href="#">Inventory Wizard</a> .
<b>Add Shortcut</b>	This opens the <b>Shortcut Wizard</b> for this domain. For details, see <a href="#">Shortcut Wizard</a> .
<b>Evaluate</b>	This opens the <b>Evaluation Wizard</b> for the selected domain. If no domain is selected, you can select one from the domain list in the wizard. For details, see <a href="#">Evaluation Wizard</a> .

**Table 3-14 Domain Explorer Context Menu Options**

Option	Description
<b>Evaluate from file</b>	This opens the <b>Evaluate a Domain</b> dialog box for the selected domain. Use this to select a domain, Signature Bundle, and Data File to use for the Evaluation. For details, see <a href="#">Evaluate from File Dialog Box</a> .
<b>Compare</b>	Compare two Inventories or two Evaluations. The two items must be of the same type. <b>Ctrl</b> +click to select two items, then right-click and select <b>Compare</b> from the context menu. The results are displayed in the Document Pane.
<b>Add Domain Group</b>	Create a new Domain Group. Right-click on <b>Target Domains</b> and select <b>Add Domain Group</b> from the context menu to display the <b>Add Domain Group</b> dialog box. For details, see <a href="#">Add Domain Group Dialog Box</a> .
<b>Delete Domain Group</b>	Remove the selected Domain Group. Right-click on a Domain Group and select <b>Delete Domain Group</b> from the context menu. A confirmation dialog box prompts you to confirm or cancel the operation. Click <b>Yes</b> to delete the selected group. You cannot delete a domain group that is not empty. To depopulate a group, drag and drop the Domain Nodes from that group into the <b>Target Domains</b> folder or another Domain Group. See also <a href="#">Delete Domain Group</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Rename Domain Group</b>	This opens the <b>Rename Domain Group</b> dialog box for the selected domain. Enter the new name and click <b>OK</b> . See also, <a href="#">Rename Domain Group Dialog Box</a> .
<b>Evaluate Bundle...</b>	This opens a submenu listing the Bundles available for evaluation. Select a Bundle to open the <b>Bundle Evaluation Wizard</b> for that Bundle. For details, see <a href="#">Bundle Evaluation Wizard</a>

## Domain Properties Dialog Box

Domain Properties govern how Guardian accesses a target domain. The **Domain Properties** dialog box enables you to view and modify the Domain Properties for a specific domain.

To open the **Domain Properties** dialog box for a domain, right-click on the domain name in the Domain Explorer tree, and then select **Modify Domain** from the context menu.



The Domain Properties dialog box contains the following elements:

**Table 3-15 Domain Properties**

Element	Description
<b>Name</b>	This is the name for this domain.
<b>Admin Server URL</b>	This is the URL for the WebLogic Server Administration Server for this domain.
<b>Username</b>	This is the username for a WebLogic Server Administrator or Monitor for this domain.
<b>Password</b>	This is the password for the WebLogic Server Administrator or Monitor specified for <b>Username</b> .
<b>Remember username/password</b>	Select this checkbox to encrypt and store the domain login credentials on disk. This saves you from having to enter the credentials each time you perform a domain operation.
<b>Enable proxy connection</b>	Select this if a proxy server is to be used to access the target domain. Then, select a proxy server from the drop-down list. If there are no proxy servers in the drop down list, this checkbox is disabled. See <a href="#">Proxy Servers</a> of <a href="#">Chapter 2, “Tasks,”</a> for complete instructions on enabling and adding proxies.
<b>Max Agent Threads</b>	Specifies the maximum number of Agent threads to allocate in the WebLogic Server Administration Server. This can be an integer value from <b>1</b> to <b>20</b> . The default is <b>10</b> .
<b>Agent Thread Timeout</b>	Specifies the maximum number of seconds that can elapse before an Agent thread is deactivated when collecting data from managed servers. This can be an integer value from <b>10</b> to <b>600</b> . The default is <b>60</b> .
<b>Notes</b>	This contains a text description or other details pertaining to this domain.

## Evaluate from File Dialog Box

To capture target domain data to a file for later evaluation, you can set the following flag in your `guardian.ini` file:

**`-Dguardian.dump.collection.data`**

When this flag is set, each time a domain is evaluated, the data is captured and written to two files in the `data` subdirectory of your Guardian Workspace. The files are named as follows:

`collectedData_<nnnnnnnnnnnn>.xml`

Where `<nnnnnnnnnnnn>` is a timestamp for the creation of the file.

For example:

`collectedData_1218570631376.xml`

These two files are differentiated by their respective timestamps, and their size. The earlier, smaller file contains the data collected from the domain as restricted by the selected Signature Bundle. The second and much larger file contains a collection of all available data from the domain.

The captured data can then be evaluated, as explained below. The evaluation proceeds the same as with a “live” evaluation, except that the data in the capture file is evaluated, rather than evaluating the realtime data from a live server.

**Note:** In most cases, you can use the smaller of the two files for the evaluation. However, using the larger data file reveals more Detected Signatures, since there is no Bundle restriction.

You can use the **Evaluate from File** dialog box to specify a domain, Signature Bundle, and data file to use for a data file evaluation.

You can use either of the following methods to open the **Evaluate from File** dialog box:

- If you do not want to preselect a domain for evaluation, right-click anywhere in the **Domain Explorer** and then select **Evaluate from File** from the context menu.
- To preselect a domain for evaluation, open the **Domain Explorer** and then open the **Target Domains** folder. Right-click on the name of the domain you want to evaluate and select **Evaluate from File** from the context menu. The dialog box opens with that domain preselected.

The **Evaluate from File** dialog box contains the following elements:

**Table 3-16 Evaluate from File Dialog Box Elements**

Element	Description
<b>Domain</b>	This specifies the domain to evaluate. Select a domain from the drop down menu. If you preselected a domain when opening the dialog box, this field is already filled.
<b>Bundle</b>	<p>This specifies the Signature Bundle to use for the evaluation. Select a Bundle from the drop down menu. This can be one of the following:</p> <ul style="list-style-type: none"> <li>• <b>Default Signatures</b></li> <li>• <b>Other Signatures</b></li> <li>• <b>Security Advisories</b></li> <li>• <b>Critical Signatures</b></li> <li>• <b>Configuration Remedy</b></li> </ul> <p>For instructions on using Bundles, see <a href="#">Bundles</a> of <a href="#">Chapter 2</a>, “<a href="#">Tasks.</a>”</p>
<b>Data File</b>	This specifies the data file to use for the evaluation. Adding the flag

## Add Domain Group Dialog Box

Use the **Add Domain Group** dialog box to create a new Domain Group. To open, right-click on **Target Domains** in the **Domain Explorer** tree and select **Add Domain Group** from the context menu. Enter a name for the domain and click **OK** to add the new group to the **Target Domains** folder.

For instructions on populating and using Domain Groups, see [Domain Groups](#) in [Chapter 2](#), “[Tasks.](#)”

## Rename Domain Group Dialog Box

Use the **Rename Domain Group** dialog box to change the name for a Domain Group. To open, right-click on **Target Domains** in the **Domain Explorer** tree and select **Rename Domain Group** from the context menu. Enter the new name and click **OK**.

See also, [Rename Domain Group](#) in [Chapter 2](#), “[Tasks.](#)”

## Related Tasks

- [Basic Tasks](#)
- [Guardian Agent](#)
- [Workspaces](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Inventories and Evaluations](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Command Line Interface](#)
- [Active Domains Table](#)
- [Domain Inventory View](#)
- [Evaluation Summary View](#)
- [Domain Activation Wizard](#)
- [Domain Deactivation Wizard](#)
- [Evaluation Wizard](#)
- [Filters Wizard](#)
- [Inventory Wizard](#)

## Signature Explorer

The **Signature Explorer** is a Navigator View that enables you to browse the available signatures and view the contents of a selected signature. In the Navigation Pane, select the **Signature Explorer** tab to display the explorer.




The **Signature Explorer** contains a list of all existing signatures currently installed in Guardian. Double-click on a signature title to display the contents of that signature in the Document Pane.

### Signature Severity Icons

To the left of each signature title in the **Signature Explorer** signature list is a Signature Severity icon. The icon indicates the severity level for that signature.

The following table describes the Signature Severity icons:

**Table 3-17 Signature Severity Icons**

Icon	Severity
	Critical
	Warning
	Informational

## Signature Explorer Toolbar Menu

Click the **Signature Explorer** toolbar menu icon to open a menu of options for sorting and filtering the signature list.

The **Signature Explorer** toolbar menu contains the following options:

**Table 3-18 Signature Explorer Toolbar Menu Options**

Option	Description
<b>Sort Signatures &gt;</b>	This opens a submenu containing the following options: <ul style="list-style-type: none"><li>• <b>By Name</b> — List the signatures alphabetically by name. This is the default ordering when you first open the <b>Signature Explorer</b>.</li><li>• <b>By Severity</b> — Group the signatures by severity level, and list signatures alphabetically by name within each severity level.</li></ul>
<b>Filters...</b>	This opens the <b>Filters Wizard</b> , for specifying which signatures to include in signature displays. For details, see <a href="#">Filters Wizard</a> . For instructions on using the wizard, see <a href="#">Filter Signatures</a> in <a href="#">Chapter 2</a> , “Tasks.”
<b>Link with Editor</b>	Link the Navigator Pane Tree to the Document Pane View. If you have multiple Document Views open in the Document Pane, the Explorer Tree tracks which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Explorer Tree.

## Signature Explorer Context Menu

Right-click on a signature name in the Signature Explorer to display the Signature Explorer context menu. This menu has only one option:

**Table 3-19 Signature Explorer Context Menu Option**

Option	Description
<b>Annotations &gt;</b>	This opens a submenu with the following option: <ul style="list-style-type: none"><li>• <b>Manage Annotations:</b> Select this to open the <b>Annotations Wizard</b>. For details, see <a href="#">Annotations Wizard</a>. For instructions on using this wizard, see <a href="#">Signature Annotations</a> of <a href="#">Chapter 2</a>, “Tasks.”</li></ul>

## Related Tasks

- [Basic Tasks](#)
- [Guardian Agent](#)
- [Workspaces](#)
- [Preferences](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Command Line Interface](#)
- [Active Domains Table](#)

- [Text Compare View](#)
- [Signature View](#)
- [Annotations Wizard](#)
- [Filters Wizard](#)

## Bundle Explorer

The **Bundle Explorer** is a Navigator view for browsing the available Signature Bundles and their contents. In the Navigation Pane, select the **Bundle Explorer** tab to display the explorer.

The **Bundle Explorer** contains the following elements:

**Table 3-20 Bundle Explorer Elements**

Element	Description
<b>Bundles Folder</b>	This is the top level folder in the <b>Bundle Explorer</b> tree. This contains a folder for each Signature Bundle that is available for evaluation.
<b>Bundle Nodes (folders)</b>	Signatures are grouped into different Bundles, based on their characteristics. The <b>Bundles</b> folder contains a node (folder) for each Bundle that is available for evaluation. Double-click a Bundle Node to display the <b>Signature Bundle</b> Document View for that Bundle.
<b>Signature Titles</b>	Open a Bundle Node folder to see a list of the signature titles included in that Bundle. Double-click on a signature title to display the contents of that signature in the Document Pane.



Table 3-20 Bundle Explorer Elements




Element	Description
<b>Bundle Explorer Toolbar Menu</b>	<p>Click the <b>Bundle Explorer</b> menu icon to display a menu containing the following options:</p> <ul style="list-style-type: none"> <li>• <b>Filters...</b> — Opens the <b>Filters</b> Wizard for filtering the contents of Bundle and signature lists.</li> <li>• <b>Sort Signatures &gt;</b> — Opens a submenu with the following options: <ul style="list-style-type: none"> <li>– <b>By Bundle Name, Signature Name</b></li> <li>– <b>By Bundle Name, Severity</b></li> </ul> </li> <li>• <b>Link with Editor</b> — Link the Navigator Pane Tree to the Document Pane View. If you have multiple Document Views open in the Document Pane, the Explorer Tree tracks which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Explorer Tree.</li> </ul> <p>For more information, see <a href="#">Bundle Explorer Toolbar Menu</a>.</p>
<b>Bundle Explorer Context Menu</b>	<p>Right-click on a signature title in the <b>Bundle Explorer</b> to display a context menu with the following option:</p> <ul style="list-style-type: none"> <li>• <b>Annotations &gt;</b> — Opens a submenu with the following option: <ul style="list-style-type: none"> <li>– <b>Manage Annotations</b> — Select this to open the <b>Annotations</b> Wizard for add an annotation to the selected signature.</li> </ul> </li> </ul> <p>For more information, see <a href="#">Bundle Explorer Context Menu</a>.</p>

### Bundle and Signature Severity Icons

Each Bundle Node has an icon indicating the severity level for that Bundle. The security level for the Bundle is determined by the highest security level occurring for any signature in that Bundle. For example, if only one signature in the Bundle has a severity level of **Critical**, then the entire Bundle will have a severity level of **Critical**.

The Bundle and Signature Severity icons are as follows:

**Table 3-21 Bundle and Signature Severity Icons**

Icon	Severity
	Critical
	Warning
	Informational

## Bundle Explorer Toolbar Menu

Click the **Bundle Explorer** menu icon to open a menu with the following options:

**Table 3-22 Bundle Explorer Toolbar Menu**

Element	Description
<b>Filters...</b>	This opens the <b>Filters Wizard</b> , for specifying which signatures to include in signature displays. For details, see <a href="#">Filters Wizard</a> . For instructions on using the wizard, see <a href="#">Filter Signatures</a> in <a href="#">Chapter 2</a> , “Tasks.”
<b>Sort Signatures</b>	<p>This displays a submenu with the following options for sorting the signatures displayed in the <b>Bundle Explorer</b>:</p> <ul style="list-style-type: none"> <li>• <b>By Bundle Name, Signature Name</b>— List the Bundles alphabetically, and then list the signatures in each Bundle alphabetically by Signature Title. This is the default ordering when you first open the <b>Bundle Explorer</b>.</li> <li>• <b>By Bundle Name, Severity</b>— Group the signatures in each Bundle by severity level, and the list the signatures alphabetically by Signature Title, within each severity level.</li> </ul> <p>Selecting either of the <b>Sort Signatures</b> choices collapses all the Bundle Nodes. To see the signatures in the new sort order, either click each Bundle Node individually to expand it, or click the Expand All icon to expand all of the Bundle Nodes.</p>
<b>Link with Editor</b>	Link the Navigator Pane Tree to the Document Pane View. If you have multiple Document Views open in the Document Pane, the Explorer Tree tracks which Document View is currently active (displayed). The current active Document View name is then also selected (highlighted) in the Explorer Tree.

## Bundle Explorer Context Menu

In the **Bundle Explorer**, right-click on a signature title to display the **Bundle Explorer** context menu. This menu has only one option:

**Table 3-23 Signature Explorer Context Menu Option**

Option	Description
<b>Annotations &gt;</b>	This opens a submenu with the following option: <ul style="list-style-type: none"><li>• <b>Manage Annotations:</b> Select this to open the <b>Annotations Wizard</b>. For details, see <a href="#">Annotations Wizard</a>. For instructions on using this wizard, see <a href="#">Signature Annotations</a> of <a href="#">Chapter 2</a>, “Tasks.”</li></ul>

## Related Tasks

- [Basic Tasks](#)
- [Guardian Agent](#)
- [Preferences](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Command Line Interface](#)
- [Updates and Upgrades](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Domain Explorer](#)
- [Signature Explorer](#)
- [Shortcut Explorer](#)

- [Signature View](#)
- [Signature Bundle View](#)
- [Bundle Evaluation Wizard](#)

## Shortcut Explorer

The **Shortcut Explorer** is a Navigation Pane View for viewing and managing your Evaluation Shortcuts. In the Navigation Pane, select the **Shortcut Explorer** tab to display the explorer.

The Shortcut Explorer displays a list of all of the Evaluation Shortcuts you have created. Double-click on a Shortcut to open the **Shortcut Evaluation Wizard** with the Shortcut target domain and Signature Bundle preselected.

For a description of Shortcuts, see [Shortcut](#) in [Chapter 1, “About Oracle Guardian.”](#) For instructions on creating and using Shortcuts, see [Shortcuts](#) in [Chapter 2, “Tasks.”](#)

## Shortcut Explorer Context Menu

You can use either of the following methods to open the **Shortcut Explorer** context menu:

- To apply a menu option to a specific object, right-click the object in the **Shortcut Explorer** tree and then select the option from the context menu.
- To open the context menu without preselecting an object, right-click in an empty area in the **Shortcut Explorer** display.

The **Shortcut Explorer** context menu contains the following options:

**Table 3-24 Shortcut Explorer Context Menu Options**

Element	Description
<b>Add Shortcut</b>	This opens the <b>Shortcut Wizard</b> for creating a new Evaluation Shortcut. For instructions, see <a href="#">Shortcut Wizard</a> .
<b>Delete Shortcut</b>	Delete the selected Shortcut. A <b>Confirm Delete</b> dialog box prompts you to confirm the delete operation. Click <b>OK</b> to delete the <b>Shortcut</b> .
<b>Evaluate Shortcut</b>	This opens the <b>Shortcut Evaluation Wizard</b> for conducting an evaluation as defined in the selected Shortcut. For instructions, see <a href="#">Shortcut Evaluation Wizard</a> .

## Related Tasks

- [Basic Tasks](#)
- [Workspaces](#)
- [Preferences](#)
- [Domains](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Shortcuts](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)

- [Domain Explorer](#)
- [Bundle Explorer](#)
- [Signature Explorer](#)
- [Shortcut Evaluation Wizard](#)

## Document Pane

The Document Pane is located in the central portion of the Oracle Guardian main window. The Document Pane displays the Document Views.

The Document Pane contains the following elements:

- [Document Views](#)
- [Document Pane Outline Views](#)
- [Document View Titlebars](#)
- [Document View Context Menus](#)

## Document Views

The Document Views display the details document(s) for the object selected in the Navigation Pane. Some Views also have editing features for cutting, copying, and pasting text selections into an external editor. If edit options are available for a View, you can right-click in that View to open an Edit menu of those options.

You can have multiple Views open in the Document Pane, but only one can be active at a time. Each opened View has a tab, located at the top of the Document Pane. Click on a View tab to activate and display that View. Some Views have additional tabs, located at the bottom of the View display. These display additional pages for that View, such as the **Overview**, **Source**, and **Report** pages.

[Table 3-25](#) provides an overview of the Document Views.

**Table 3-25 Document Views**

View/Editor	Description
<b>Domain Inventory View</b>	<p>Open the <b>Domain Explorer</b> &gt; <b>Inventory History</b> folder and then double-click on a Domain Inventory title to display that inventory in the Document Pane. The inventory includes descriptions of your servers, Java Virtual Machines, operating systems, databases, product versions, and certain configuration settings. The <b>Domain Inventory View</b> contains the following tabs:</p> <ul style="list-style-type: none"> <li>• <b>Overview</b> — Display the <b>Domain Inventory Overview</b> for this Inventory.</li> <li>• <b>Source</b> — Display the XML source for the Inventory.</li> <li>• <b>Report</b> — Display the Domain Inventory report for this inventory.</li> </ul> <p>For details, see <a href="#">Domain Inventory View</a>.</p>
<b>Evaluation Summary View</b>	<p>Open the <b>Domain Explorer</b> &gt; <b>Evaluation History</b> folder, and then double-click on an Evaluation Summary title to display that Evaluation Summary in the Document Pane. This contains a table of all detected signatures for the evaluated domain. Select a signature in the list to display the signature <b>Description</b> and <b>Remedy</b> details for that signature. For details, see <a href="#">Evaluation Summary View</a>.</p>
<b>Signature View</b>	<p>Double-click on a signature entry in the <b>Signature Explorer</b> or <b>Bundle Explorer</b> to display this View. This View contains the following tabs:</p> <ul style="list-style-type: none"> <li>• <b>Overview</b> — Display the <b>Signature Overview</b> for the signature.</li> <li>• <b>Source</b> — Display the XML source for the signature.</li> <li>• <b>Report</b> — Display the Signature Report for that signature.</li> </ul> <p>For details, see <a href="#">Signature View</a>.</p>
<b>Signature Bundle View</b>	<p>Double-click on a Bundle Node in the <b>Bundle Explorer</b> to display this View. This View provides a description and some additional details about the selected Bundle. Also included is the Signature Definition for the Bundle. For details, see <a href="#">Signature Bundle View</a>.</p>



**Table 3-25 Document Views**

View/Editor	Description
<b>Active Domains Table</b>	<p>Select <b>Window &gt; Show View &gt; Active Domains Table</b> to display this View. This contains a table of all of the domains currently activated in Guardian, and action buttons for the following tasks:</p> <ul style="list-style-type: none"> <li>• <b>Open Admin Console</b> — Open an instance of the WebLogic Server Administration Console.</li> <li>• <b>Modify Domain</b> — Open the <b>Domain Properties</b> configuration page for the selected domain.</li> <li>• <b>Deactivate Domain</b> — Open the <b>Domain Deactivation Wizard</b> for the selected domain(s).</li> </ul> <p>For details, see <a href="#">Active Domains Table</a>.</p>
<b>Shortcuts Table</b>	<p>Select <b>Window &gt; Show View &gt; Shortcuts Table</b> to display this View. This contains a table of all of your Shortcuts, and action buttons for the following tasks:</p> <ul style="list-style-type: none"> <li>• <b>Add Shortcut</b> — Open the <b>Shortcut Wizard</b> for creating Shortcuts.</li> <li>• <b>Delete Shortcut</b> — Delete the selected Shortcut. A <b>Confirm Delete</b> dialog box prompts you to confirm the delete operation. Click <b>OK</b> to delete the Shortcut.</li> </ul> <p>For details, see <a href="#">Shortcuts Table</a>.</p>

## Document Pane Outline Views

When a Document View is open, you can select **Window > Show View > Outline View** to display the **Outline** View for the current Document View. You can use the **Outline** View as a navigator for the current Document View. You can click the **Overview**, **Source**, or **Report** nodes in the **Outline** View to bring the corresponding tab of the Document View to the forefront. You can open the **Outline** View **Source** node to select specific XML tag names, to jump to those tags in the **Source** page and highlight them.

## Document View Titlebars

Each Document View has a titlebar that contains the name of the View, an identity icon (for example, a Domain or Signature icon), and buttons to close, minimize, maximize, and restore the display.

The View titlebars also have the following additional features:

- **Bubble Help/Text**

Roll your cursor over titlebar text for a bubble help description of that text or page. For example, for a **Domain Inventory** View, this displays the full Guardian Workspace path and inventory file name for that Domain Inventory.

- **Maximize and Restore**

Double-click the titlebar to maximize a View. Double-click it again to restore it to its original size.

- **System Menu**

Right-click on a titlebar to open the **System Menu** for that View. This contains options for restoring, sizing, minimizing/maximizing, and closing View(s). This menu also enables you to open a new (unedited) copy of the View, or to move a tab or tab group.

- **Tab Groups**

You can group multiple Views together on a titlebar as a tab group. Tab groups can be moved together as a unit, using either the **System Menu > Move** menu option or drop cursors. Only the titlebar of the currently active View is visible in a tab group.

- **Show List Icon**

If you have more Views open than can fit on a titlebar, a Show List icon appears to the right of the titlebar tabs. The icon includes a number that indicates how many more open Views can fit on the titlebar. Click the icon to display a list of all the titlebar View. Select an item from the list to make it active and bring it to the forefront of the Navigation Pane or Document Pane display. The items listed in bold font are those that cannot fit on the titlebar. The items not listed in bold are those that are already shown on the titlebar.

- **Drag and Drop**

You can move Views by dragging their titlebars to different locations, as follows:

- You can move Navigation Pane Views almost anywhere, including outside the Oracle Guardian main window. However, you can move Document Views only within the Document Pane.

- As you drag a View or Editor titlebar, the mouse pointer changes into a drop cursor that indicates where the View will dock when you release it.
- The point in the titlebar at which you click determines what will be dragged. Click a View tab to move that View only, without moving the entire tab group. To move the tab group, click to the right of the tabs in the title bar, or select **Move > Tab Group** from the **System Menu**.

## Document View Context Menus

The following Document Views have context menus:

- [Domain Inventory View](#)
- [Evaluation Summary View](#)
- [Signature View](#)
- [Signature Bundle View](#)

The [Active Domains Table](#) and [Shortcuts Table](#) Views do not have context menus.

Each tab page for a View has a context menu specific to the tab contents. Some context menus—for example, **Edit** menus—may be available only for certain items within that View.

To open a context menu, right-click on an item in that View.

## Document View Edit Menus

Edit menus are available in some View pages for text items that can be copied and pasted to an external editor. If an item cannot be edited (copied), the **Edit** menu will not be available.

Right-click on an item to display a menu of standard edit options for that item.

The **Edit** context menu contains the following standard options:

**Table 3-26 Document View Edit Menu**

Element	Description
<b>Undo</b>	Undo last edit operation.
<b>Cut</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application.
<b>Copy</b>	Copy selected text to Clipboard or copy buffer.

**Table 3-26 Document View Edit Menu**

Element	Description
<b>Paste</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application.
<b>Delete</b>	(Disabled.) This is an Eclipse Platform menu option that does not apply to this application.
<b>Select All</b>	Select all text in Document View.

## Domain Inventory View

The **Domain Inventory** Document View displays the contents of a Domain Inventory. The Domain Inventory is an XML document that describes the products in your domain, and is persisted in your Guardian Workspace. The inventory includes descriptions of your servers, Java Virtual Machines, operating systems, databases, product versions, and certain configuration settings. For details, see “[Domain Inventory](#)” on page 1-25 in the section “[About Oracle Guardian](#).”

You can use either of the following methods to open a **Domain Inventory** View:

- In the **Domain Explorer**, open the **Inventory History** folder, and then double-click on a Domain Inventory name to display that inventory in the Document Pane.
- Activate a domain, or inventory a domain. Then click the **OK** button in the **Progress View**.

The Domain Inventory View contains the following tabs:

- [Domain Inventory Overview Tab](#)
- [Domain Inventory Source Tab](#)
- [Domain Inventory Report Tab](#)

The contents of each of these tab pages are described in the following sections.

## Domain Inventory Overview Tab

The Domain Inventory Overview page displays a summary of the selected Domain Inventory. The Overview page contains the following sections:

- [General Information Section](#)
- [Servers Section](#)
- [JDBC](#)

These are described in the following sections.

### General Information Section

The Domain Inventory **General Information** section contains the following information:

**Table 3-27 Domain Inventory General Information Section**

Field	Description
<b>Domain Name</b>	This is the name of the domain assessed in this Domain Inventory.
<b>Inventory Date/Time</b>	Date and time this Domain Inventory was created.

### Servers Section

The Domain Inventory **Servers** section contains the following information:

**Table 3-28 Domain Inventory Servers Section**

Field	Description
<b>Number of Servers Configured</b>	This is located at the far left at the top of the <b>Servers</b> section. This indicates the number of all configured servers, regardless of their state.
<b>Number of Active Servers</b>	This is located at the top of the <b>Servers</b> section, in the middle above the <b>Server Details</b> section. This is a number less than or equal to <b>Number of Configured Servers</b> . When this number is less than <b>Number of Configured Servers</b> , it indicates that some of the servers are not running.

**Table 3-28 Domain Inventory Servers Section**

Field	Description
<b>Number of Available Agents</b>	This is located at the top of the <b>Servers</b> section at the far right above the <b>Server Details</b> section. This is a number less than or equal to <b>Number of Active Servers</b> . When this number is less than <b>Number of Active Servers</b> , it indicates that the Guardian Agent is either not deployed or not started on one or more running server(s).
<b>Sever list area</b>	This contains a list of all configured servers. An icon indicates whether a server is running or not. Click on a server name in the <b>Servers</b> list area to view the details for that server.
<b>Server Details &gt;</b>	<p>This subsection contains the following information:</p> <ul style="list-style-type: none"> <li>• <b>Name</b> — This is the name of this server.</li> <li>• <b>Version</b> — This is the basic version number for this server.</li> <li>• <b>WebLogic Version</b> — This is the complete version number for this instance of the WebLogic Server.</li> <li>• <b>Admin Server</b> — (<b>True/False</b>) Specifies whether this server is the Administration Server for this domain.</li> <li>• <b>Production Mode</b> — (<b>True/False</b>) Specifies whether this server is running in Production Mode or Development Mode.</li> <li>• <b>Agent State</b> — Specifies the current state of the Guardian Agent deployed in the WebLogic Administration Server for this domain. This can be one of the following: <ul style="list-style-type: none"> <li>– <b>Available</b></li> <li>– <b>Unavailable</b></li> </ul> </li> </ul>
<b>Java Details &gt;</b>	<p>This subsection contains the following information:</p> <ul style="list-style-type: none"> <li>• <b>Java Vendor</b></li> <li>• <b>Java Version</b></li> <li>• <b>Java VM (Virtual Machine) Vendor</b></li> <li>• <b>Java VM Name,</b></li> <li>• <b>Java VM Version</b></li> <li>• <b>Free Memory</b></li> <li>• <b>Total Memory</b></li> <li>• <b>Max Memory</b></li> </ul>
<b>Operating System Details &gt;</b>	This subsection displays the operating system name, version, and processor architecture.

## JDBC

The Domain Inventory **JDBC** section contains the following information:

**Table 3-29 Domain Inventory JDBC Section**

Element	Description
<b>Number of Unique JDBC Connection Pool/Data Source Configurations</b>	(Numeric value) Indicates the current number of unique JDBC Connection Pool and Data Source Configurations for this domain.
<b>JDBC Connection Pool list area</b>	This contains a list of the JDBC Connection Pools configured for this domain. Click on an entry in the JDBC Connection Pool list to display the <b>JDBC Details</b> for that Connection Pool.
<b>JDBC Details &gt;</b>	<p>Click on an entry in the JDBC Connection Pool list to display the JDBC Details for that Connection Pool. The details for the first entry in the list are displayed by default.</p> <p>This subsection contains the following information:</p> <ul style="list-style-type: none"> <li>• JDBC Connection Pool name</li> <li>• JDBC data source name</li> <li>• Database product name and version</li> <li>• JDBC Driver name and version</li> </ul>

## Domain Inventory Source Tab

The Domain Inventory **Source** page displays the XML source for the selected Domain Inventory. This page also has a context menu of options for saving, copying, and printing the inventory XML source.

## Domain Inventory Source Tab Context Menu

Right-click in the **Source** page to display a context menu with the following options:

**Table 3-30 Domain Inventory Source Tab Context Menu**

Element	Description
<b>Save As...</b>	Save <b>Source</b> tab contents as an XML file. Opens a file browser from which you can specify the file name and location.
<b>Copy</b>	Copy selected text to clipboard.
<b>Print</b>	Print <b>Source</b> tab contents to the specified printer. Opens a standard <b>Print</b> dialog box for specifying print parameters and preferences.
<b>Select All</b>	Select all text in page.
<b>Find/Replace</b>	Find the specified text. Opens the <b>Find/Replace</b> dialog box for specifying the string search parameters. Select and then right-click on text to preselect the search text. The <b>Source</b> page is a read-only View, so the <b>Replace</b> feature is disabled.
<b>Find Next</b>	Find the next instance of the specified search string or selected text.
<b>Find Previous</b>	Find the previous instance of the specified search string or selected text.

## Domain Inventory Report Tab

The Domain Inventory **Report** page displays all of the information contained in the Domain Inventory **Overview** page, in a printer friendly format. This page also has a system menu of options for exporting, printing, creating a desktop shortcut for the page, adding the inventory to your favorites list, and other file operations. Right-click anywhere in the Report page to display this menu. Some options may not be applicable in this context.

## Related Tasks

- [Basic Tasks](#)
- [Guardian Agent](#)
- [Workspaces](#)



- [Preferences](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Shortcuts](#)
- [Command Line Interface](#)
- [Support](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Domain Explorer](#)
- [Inventory Wizard](#)
- [Command Line Interface](#)

## Evaluation Summary View

The **Evaluation Summary** View displays the contents of a selected Evaluation Summary document. An Evaluation Summary is created each time you evaluate a domain, and is persisted in the Guardian Workspace. For more information, see [Evaluation Summary](#) in the section “[About Oracle Guardian](#).” For instructions on conducting evaluations, see [Inventories and Evaluations](#) in [Chapter 2, “Tasks.”](#)

You can use either of the following methods to display an Evaluation Summary:

- In the **Domain Explorer**, open the **Evaluation History** folder, and then double-click on an Evaluation entry to display that Evaluation Summary in the Document Pane.
- Conduct an evaluation. An Evaluation Summary is opened automatically when the evaluation completes. For instructions, see [Evaluate Domain](#) in [Chapter 2, “Tasks.”](#)

The **Evaluation Summary** View contains the following tabs:

- [Evaluation Summary Overview Tab](#)
- [Evaluation Summary Source Tab](#)
- [Evaluation Summary Report Tab](#)

The following sections describe the contents of each of these tab pages.

## Evaluation Summary Overview Tab

The **Overview** page displays the results data for the selected Evaluation Summary, which includes a table of all signatures detected in the Evaluation. You can click on a signature entry in the table to view the **Description** and **Remedy** information for that signature. The **Description** and **Remedy** information is displayed in the lower half of the **Overview** page, just below the **Detected Signatures** table. You can expand or collapse a View section by clicking the triangle icon in the heading.

The Evaluation Summary **Overview** page contains the following sections:

- [General Information Section](#)
- [Detected Signatures Table](#)
- [Description Section](#)
- [Remedy Section](#)

These are described in the following sections.

### General Information Section

The **General Information** section of the **Evaluation Summary** View contains the following information:

**Table 3-31 Evaluation Summary View General Information Section**

Field	Description
<b>Domain Name</b>	This is the name of the target domain.
<b>Bundle Name</b>	This is the Signature Bundle used for this evaluation.

**Table 3-31 Evaluation Summary View General Information Section**

Field	Description
<b>Evaluation Date/Time</b>	This is the date and time stamp for when the evaluation was completed.
<b>Duration</b>	This is the amount of time (in miliseconds) that it took to complete the evaluation.
<b>Targeted Signatures</b>	This is the number of signatures in the Bundle that target products that are actually present in the evaluated domain. Some signatures may not be targeted because the products targeted by the signature are not present in the domain.
<b>Detected Signatures</b>	This is the number of targeted signatures that were detected for this domain. Detected signatures are targeted signatures that in turn target issues that were detected in your domain during the evaluation.

## Detected Signatures Table

The **Detected Signatures Table** contains the list of signatures detected for this domain for this evaluation, and some additional information about each detected signature.

Select a signature entry in the table to display the details for that signature in the **Description** and **Remedy** sections of the View. Details for the first entry are displayed by default.

Click on a table column heading to sort the table contents according to that column order. The default sort order is by **Severity** and then **Name**.

The **Detected Signatures Table** contains the following information for each detected signature:

**Table 3-32 Detected Signatures Table**

Field	Description
<b>Severity</b>	This is the severity level for this signature. This can be one of the following: <ul style="list-style-type: none"> <li>– <b>CRITICAL</b></li> <li>– <b>WARNING</b></li> <li>– <b>INFO</b></li> </ul>
<b>Name</b>	This is the signature title.

**Table 3-32 Detected Signatures Table**




Field	Description
Impact	This is indicates the type of impact this issue could have in your domain (for example, <b>Server Outage</b> , <b>Subsystem Outage</b> , <b>Administration</b> , <b>Performance</b> , etc.).
Product	This is the Oracle product in your domain that is targeted by this signature for this issue.
Topic	This is the product component, feature, or support product targeted by this signature for this issue.
Subtopic	This is an additional level of detail pertaining to the targeted topic for this signature.
ID	This is the signature ID number.
SR (Service Request)	This lists any support service requests you have filed for this signature.

**Evaluation Summary Signature Severity Icons**

To the left of each signature title in the **Severity** column of the table is a Signature Severity icon. The icon indicates the severity level for that signature.

The following table describes the Signature Severity icons:

**Table 3-33 Signature Severity Icons**

Icon	Severity
	Critical
	Warning
	Informational

## Detected Signatures Table Context Menu

Right-click on a signature title in the **Detected Signatures** table to open a context menu with the following options:

**Table 3-34 Detected Signatures Table Context Menu**

Element	Description
<b>Sorting...</b>	<p>This opens the <b>Sorting</b> dialog box for sorting signatures. You can sort in ascending or descending order, and according to any hierarchical combination of the following criteria:</p> <ul style="list-style-type: none"> <li>• <b>By Name</b></li> <li>• <b>By Severity</b></li> <li>• <b>Impact</b></li> <li>• <b>Product</b></li> <li>• <b>Topic</b></li> </ul> <p>For instructions, see <a href="#">Sort Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a></p>
<b>Filters...</b>	<p>This opens the <b>Filters Wizard</b>, for specifying which signatures to include in signature displays. For details, see <a href="#">Filters Wizard</a>. For instructions, see <a href="#">Filter Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a></p>
<b>Annotations &gt;</b>	<p>This opens a submenu with the following option:</p> <p><b>Manage Annotations:</b> Select this to open the <b>Annotations Wizard</b>. For details, see <a href="#">Annotations Wizard</a>. For instructions on using this wizard, see <a href="#">Signature Annotations</a> of <a href="#">Chapter 2, “Tasks.”</a></p>

## Description Section

The **Description** section of the **Evaluation Summary** View is the left panel below the **Detected Signatures** table. Select a signature entry in the **Detected Signatures** table to display the **Description** details for that signature. This section contains the following information:

**Table 3-35 Evaluation Summary Description Section**

Field	Description
<b>Name</b>	This is the full title for the signature.
<b>Severity</b>	This is the severity level for this signature. This can be one of the following: <ul style="list-style-type: none"> <li>– <b>CRITICAL</b></li> <li>– <b>WARNING</b></li> <li>– <b>INFO</b></li> </ul>
<b>Impact</b>	This indicates the type of impact this issue could have in your domain (for example, <b>Server Outage</b> , <b>Subsystem Outage</b> , <b>Administration</b> , <b>Performance</b> , etc.).
<b>Signature Description</b>	This is the complete text description of the error targeted by the signature.

## Remedy Section

The **Remedy** section of the **Evaluation Summary** View is located below the **Detected Signatures** table, on the right side. Select a signature entry in the **Detected Signatures** table to display the **Remedy** details for that signature.

The **Remedy** section contains the following information:

**Table 3-36 Evaluation Summary View Remedy Section**

Field/Area	Description
<b>Server list</b>	This is the area at the top of the <b>Remedy</b> section. It contains a list of the servers in the evaluated domain that may be affected by this issue.
<b>Remedy text</b>	This is the area just below the Server list, and contains the recommended solution for this issue.

**Table 3-36 Evaluation Summary View Remedy Section**

Field/Area	Description
<b>For More Information</b>	This section contains links to the My Oracle Support website, product and patch download sites, recommended documentation, and other supporting documents for resolving this issue.
<b>Get more help from Oracle Support</b>	Click this link to open the Guardian <b>Service Request Wizard</b> for creating service request archive based on this signature. For details, see <a href="#">Service Request Wizard</a> . For instructions on using this wizard, see <a href="#">Creating a Service Request Archive</a> in <a href="#">Chapter 2, “Tasks.”</a>

## Evaluation Summary Overview Tab Context Menu

Right-click on a signature title in the **Detected Signatures** table to open a context menu with the following options:

**Table 3-37 Detected Signatures Table Context Menu**

Element	Description
<b>Sorting...</b>	<p>This opens the <b>Sorting</b> dialog box for sorting signatures. You can sort in ascending or descending order, and according to any hierarchical combination of the following criteria:</p> <ul style="list-style-type: none"> <li>• <b>By Name</b></li> <li>• <b>By Severity</b></li> <li>• <b>Impact</b></li> <li>• <b>Product</b></li> <li>• <b>Topic</b></li> </ul> <p>For instructions, see <a href="#">Sort Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a></p>
<b>Filters...</b>	<p>This opens the <b>Filters Wizard</b>, for specifying which signatures to include in signature displays. For details, see <a href="#">Filters Wizard</a>. For instructions, see <a href="#">Filter Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a></p>
<b>Annotations &gt;</b>	<p>This opens a submenu with the following option:</p> <p><b>Manage Annotations:</b> Select this to open the <b>Annotations Wizard</b>. For details, see <a href="#">Annotations Wizard</a>. For instructions on using this wizard, see <a href="#">Signature Annotations</a> of <a href="#">Chapter 2, “Tasks.”</a></p>

## Evaluation Summary Source Tab

The Evaluation Summary **Source** tab page displays the XML source for the selected Evaluation Summary. This page also has a context menu of options for saving, copying, and printing the inventory XML source.

### Evaluation Summary Source Tab Context Menu

Right-click in the **Source** page to display a context menu with the following options:

**Table 3-38 Evaluation Summary Source Tab Context Menu**

Element	Description
<b>Save As...</b>	Save <b>Source</b> tab contents as an XML file. Opens a file browser from which you can specify the file name and location.
<b>Copy</b>	Copy selected text to the Clipboard.
<b>Print</b>	Print <b>Source</b> tab contents to the specified printer. Opens a standard <b>Print</b> dialog box for specifying print parameters and preferences.
<b>Select All</b>	Select all text in page.
<b>Find/Replace</b>	Find and replace the specified text. Opens <b>Find/Replace</b> dialog box for specifying the string search and replace parameters. Select and then right-click on text to preselect the search text.
<b>Find Next</b>	Find the next instance of the specified search string or selected text.
<b>Find Previous</b>	Find the previous instance of the specified search string or selected text.

## Evaluation Summary Report Tab

The Evaluation Summary **Report** page displays all of the information contained in the Evaluation Summary **Overview** page, in a printer friendly format. This page also has a system menu of options for exporting, printing, creating a desktop shortcut for the page, adding the inventory to your favorites list, and other file operations. Right-click anywhere in the Report page to display this menu. Some options may not be applicable in this context.



## Related Tasks

- [Basic Tasks](#)
- [Workspaces](#)
- [Preferences](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Shortcuts](#)
- [Command Line Interface](#)
- [Support](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Domain Explorer](#)
- [Text Compare View](#)
- [Signature View](#)
- [Evaluation Wizard](#)
- [Filters Wizard](#)
- [Shortcut Evaluation Wizard](#)
- [Command Line Interface](#)

## Text Compare View

The **Text Compare** View enables you to view two Domain Inventories or two Evaluation Summaries, side-by-side. You can compare inventories or evaluations from the same or different domains. Both objects must be of the same type—that is, two inventories or two evaluations. You cannot compare an inventory against an evaluation.

To display the **Text Compare** View, do the following:

1. Open the **Domain Explorer History** folder containing the resources to be compared (**Inventory History** or **Evaluation History**).

2. Select the two documents to be compared.

Click on the first item to select it, and then hold down the **Ctrl** key and click to select the second item.

3. Right-click on the selected items and select **Compare** from the context menu.

This opens the **Text Compare** View in the Document Pane. The differences between the two files are highlighted, and related segments are shown in boxed sections, with connectors indicating the relation.

The **Text Compare** navigation controls are as follows:

**Table 3-39 Text Compare View Navigation Controls**

Action	Instructions
<b>Go to next/previous segment</b>	Click the up/down arrows at the top right corner of the <b>Text Compare</b> display.
<b>Jump to a segment</b>	Click on a segment bar in the far right column.
<b>Resize panels</b>	Move your cursor over the center divider until the cursor changes to a double arrow. Then click and drag the divider to the left or right to resize the panels.

## Text Compare View Context Menu

Right-click in the left or right **Text Compare** View panel to display the **Text Compare** context menu. This menu has the following options:

**Table 3-40 Text Compare View Context Menu**

Option	Description
<b>Copy</b>	Copy the selected text. You can then use a text editor to paste the selected text into a file and save it.
<b>Select All</b>	Select all text in the current panel. You can then use a text editor to paste the selected text into a file and save it.
<b>Ignore White Space</b>	Remove white space characters in both panels.
<b>Show Whitespace Characters</b>	Show white space characters and carriage returns in both panels. A light blue dot indicates a white space characters. A light blue paragraph symbol indicates a carriage return.
<b>Show Line Numbers</b>	Display line numbers in both panels.
<b>Find/Replace</b>	Display the <b>Find/Replace</b> dialog box. Enter your search criteria and click <b>Find</b> to search in the selected panel. <b>Replace</b> is disabled for this page.

## Related Tasks

- [Basic Tasks](#)
- [Workspaces](#)
- [Preferences](#)
- [Inventory Domain](#)
- [View Domain Inventories and Evaluation Summaries](#)
- [Evaluate Domain](#)
- [Evaluate Snapshot](#)
- [Compare Inventories or Evaluations](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Domain Explorer](#)
- [Domain Inventory View](#)
- [Evaluation Summary View](#)
- [Signature View](#)
- [Evaluation Wizard](#)
- [Filters Wizard](#)
- [Shortcut Evaluation Wizard](#)
- [Command Line Interface](#)

## Signature View

The **Signature** View displays some basic descriptive and target information for a selected signature. For information on viewing the entire contents of a signature, see [Evaluation Summary View](#).

Double-click on a signature entry in the **Signature Explorer** or **Bundle Explorer** to display this View.

The **Signature** View contains the following tabs:

- [Signature View Overview Tab](#)
- [Signature View Source Tab](#)
- [Signature View Report Tab](#)

The following sections describe the contents of each of these tab pages.

### Signature View Overview Tab

The **Signature View Overview** tab page displays some basic descriptive and target information for the signature. For information on viewing the entire contents of a signature, see [Evaluation Summary View](#).

The **Signature View Overview** page contains the following sections:

**Table 3-41 Signature View Overview Page Sections**

Section	Description
<b>General Information</b>	<p>This section contains the following information for the selected signature:</p> <ul style="list-style-type: none"> <li>• <b>ID</b> — Signature identification number.</li> <li>• <b>Name</b> — The complete signature title.</li> <li>• <b>Publication Date</b> — Signatures are periodically updated as signature target or remedy information changes. This date indicates the publication date for this version of this signature.</li> </ul>

**Table 3-41 Signature View Overview Page Sections**

Section	Description
<b>Description</b>	This is a description of the issue addressed by this signature.
<b>Target</b>	<p>This section contains the target information for this signature. The Target section contains the following subsection:</p> <ul style="list-style-type: none"> <li>• <b>[Expression]</b> — This contains an XPath expression identifying the target(s) for this signature. The target identifies the product(s), product version(s), and/or environment(s) to which this issue pertains.</li> </ul>

## Signature View Source Tab

The **Signature View Source** tab page displays the complete XML source for the selected signature. This page also has a context menu of options for saving, copying, and printing the inventory XML source.

### Signature View Source Tab Context Menu

Right-click in the **Source** page to display a context menu with the following options:

**Table 3-42 Signature View Source Tab Context Menu**

Element	Description
<b>Save As...</b>	Save <b>Source</b> tab contents as an XML file. Opens a file browser from which you can specify the file name and location.
<b>Copy</b>	Copy selected text to clipboard.
<b>Print</b>	Print <b>Source</b> tab contents to the specified printer. Opens a standard <b>Print</b> dialog box for specifying print parameters and preferences.
<b>Select All</b>	Select all text in page.
<b>Find/Replace</b>	Find and replace the specified text. Opens <b>Find/Replace</b> dialog box for specifying the string search and replace parameters. Select and then right-click on text to preselect the search text.

**Table 3-42 Signature View Source Tab Context Menu**

Element	Description
<b>Find Next</b>	Find the next instance of the specified search string or selected text.
<b>Find Previous</b>	Find the previous instance of the specified search string or selected text.

## Signature View Report Tab

The **Signature View Report** page displays all of the information contained in the **Signature View Overview** page, in a printer friendly format. This page also has a system menu of options for exporting, printing, creating a desktop shortcut for the page, adding the inventory to your favorites list, and other file operations. Right-click anywhere in the Report page to display this menu. Some options may not be applicable in this context.

## Related Tasks

- [Basic Tasks](#)
- [Preferences](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Signature Explorer](#)
- [Bundle Explorer](#)
- [Evaluation Summary View](#)

- [Text Compare View](#)
- [Annotations Wizard](#)
- [Evaluation Wizard](#)
- [Filters Wizard](#)

# Signature Bundle View

The Document Pane **Signature Bundle** View displays a description and some additional details about the selected Signature Bundle. This also includes the Signature Definition for the Bundle, which determines which signatures are included in the Bundle.

To open the **Signature Bundle** View, double-click on a Bundle Node in the **Bundle Explorer**.

The **Signature Bundle** View has the following tabs:

- [Signature Bundle View Overview Tab](#)
- [Signature Bundle View Report Tab](#)

The following sections describe the contents of each of these tab pages.

## Signature Bundle View Overview Tab

The **Signature Bundle** View **Overview** page displays a description and some additional details about the selected Signature Bundle.

The **Overview** page contains the following sections:

Table 3-43 Signature Bundle View Overview Tab

Section	Description
General Information	This section contains the following information: <ul style="list-style-type: none"><li>• ID</li><li>• Name</li><li>• Creation Date</li><li>• Last Modification Date</li></ul>
Description	This is a summary description of the Bundle contents.
Signature Def	This is the XPath expression that defines which signatures are included in this Bundle.



## Signature Bundle View Report Tab

The **Signature Bundle View Report** page displays all of the information contained in the **Signature Bundle View Overview** page, in a printer friendly format. This page also has a system menu of options for exporting, printing, creating a desktop shortcut for the page, adding the inventory to your favorites list, and other file operations. Right-click anywhere in the Report page to display this menu. Some options may not be applicable in this context.

## Related Tasks

- [Basic Tasks](#)
- [Preferences](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Signature Explorer](#)
- [Bundle Explorer](#)
- [Evaluation Summary View](#)
- [Signature View](#)
- [Evaluation Wizard](#)
- [Filters Wizard](#)

## Active Domains Table

The **Active Domains Table** is a Document View for managing the domains currently activated in Guardian.

You can use either of the following methods to open the **Active Domains Table**:

- Double-click on **Target Domains** in the Navigation Pane to display the **Active Domains Table**.
- In the Main Menu Bar, select **Window > Show View > Active Domains Table**.

The **Active Domains Table** contains the following information for each active domain:

**Table 3-44 Active Domains table Fields**

Field	Description
<b>Domain</b>	This is the domain name.
<b>Administration Server URL</b>	This is the URL for the WebLogic Administration Server for this domain.
<b>Last Evaluation</b>	This is the name of the most recent Evaluation Summary for this domain.

By default, the domains are listed alphabetically by domain name. Click a column heading to sort the table entries according to the sort order for that column. Click a column heading again to alternate between ascending or descending order.

### Active Domains Table Toolbar Buttons

The **Active Domains Table** toolbar contains the following buttons:

**Note:** You must select an entry in the table to activate the buttons.

**Table 3-45 Active Domains Table Toolbar Buttons**

Element	Description
<b>Open Admin Console</b>	This opens an Oracle WebLogic Server Administration Console in your default Web browser. If you selected the <b>Remember username/password</b> checkbox when activating or modifying the domain, the browser will automatically log you into the Administration Console. If not, the browser will start at the Administration Console login page.
<b>Modify Domain</b>	This opens the <b>Domain Properties</b> dialog box, which enables you to configure how Guardian accesses the domain, and to configure the <b>Max Agent Threads</b> and <b>Agent Thread Timeout</b> parameters. For instructions, see <a href="#">Modify Domain Properties</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Deactivate Domain</b>	This invokes the <b>Domain Deactivation Wizard</b> for deactivating the selected domain. For instructions, see <a href="#">Deactivate Domain</a> in <a href="#">Chapter 2, “Tasks.”</a>

## Related Tasks

- [Basic Tasks](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Proxy Servers](#)
- [Inventories and Evaluations](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)

- [Preferences](#)
- [Domain Explorer](#)
- [Evaluation Summary View](#)
- [Domain Activation Wizard](#)
- [Inventory Wizard](#)
- [Domain Deactivation Wizard](#)
- [Domain Properties Dialog Box](#)
- [Command Line Interface](#)

## Shortcuts Table

The **Shortcuts Table** is a Document Pane View for viewing and managing the Evaluation Shortcuts you have created.

**Note:** For a description of Evaluation Shortcuts, see [Shortcut](#) in [Chapter 1, “About Oracle Guardian.”](#) For instructions on creating Evaluation Shortcuts, see [Create Shortcut](#) in [Chapter 2, “Tasks.”](#)

To open the **Shortcuts Table**, go to the Main Menu Bar and select **Window > Show View > Shortcuts Table**.

The **Shortcuts Table** contains the following information for each Shortcut:

**Table 3-46 Shortcuts Table**

Element	Description
<b>Shortcut</b>	This is the Shortcut name.
<b>Domain</b>	This is the domain targeted for evaluation.
<b>Bundle</b>	This is the Signature Bundle used for the evaluation.

By default, the Shortcuts are listed alphabetically by Shortcut name. Clicking a column heading sorts the Shortcuts according to the sort order for that column. For example, clicking the **Domain**

column orders the Shortcuts alphabetically by domain name. Clicking the same column heading in succession alternates between ascending and descending order.

## Shortcuts Table Toolbar

The **Shortcuts Table** toolbar contains the following buttons:

**Table 3-47 Shortcuts Table Toolbar Buttons**

Button	Description
<b>Add Shortcut</b>	This opens the <b>Shortcut Wizard</b> for creating a new Evaluation Shortcut.
<b>Delete Shortcut</b>	Delete the selected Shortcut. A confirmation box prompts you to confirm the delete operation.

## Related Tasks

- [Basic Tasks](#)
- [Preferences](#)
- [Domains](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Shortcuts](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Shortcut Explorer](#)

- [Evaluation Summary View](#)
- [Evaluation Wizard](#)
- [Shortcut Wizard](#)
- [Shortcut Evaluation Wizard](#)
- [Command Line Interface](#)
- [Shortcut Wizard](#)
- [Shortcut Explorer](#)

## Preferences

The **Preferences** page enables you to customize your Oracle Guardian environment.

You can use either of the following methods to open the **Preferences** page:

- Press **Ctrl+Shift+P**.
- In the Main Menu Bar, select **Window > Preferences**.

Preference parameters are organized into primary and secondary categories, or pages. The left pane of the **Preferences** page contains a Navigation Tree listing these pages, in hierarchical order. Click on a category title in the tree to display that page. For instructions on setting Preferences, see [Preferences](#) in [Chapter 2, “Tasks.”](#)

The following table provides an overview of the **Preferences** pages.

**Table 3-48 Preferences Categories and Pages**

<b>Category</b>	<b>Description</b>
<b>General</b>	<p>This includes the following pages:</p> <ul style="list-style-type: none"> <li>• <b>General</b> (main)</li> <li>• <b>Appearance</b></li> <li>• <b>Compare/Patch</b></li> <li>• <b>Content Types</b></li> <li>• <b>Editors</b></li> <li>• <b>Keys</b></li> <li>• <b>Network Connections</b></li> <li>• <b>Perspectives</b></li> <li>• <b>Welcome Page</b></li> <li>• <b>Workspace</b></li> </ul>
<b>Guardian</b>	<p>This includes the following pages:</p> <ul style="list-style-type: none"> <li>• <b>Guardian</b> (main)</li> <li>• <b>Encryption</b></li> <li>• <b>Evaluation</b></li> <li>• <b>Logging and Debug</b></li> <li>• <b>Oracle Support</b></li> <li>• <b>Proxies</b></li> <li>• <b>Reporting</b></li> <li>• <b>XML Appearance</b></li> </ul>
<b>Help</b>	<p>These parameters control the content and appearance of Guardian online help. This includes the following pages:</p> <ul style="list-style-type: none"> <li>• <b>Help</b> (main)</li> <li>• <b>Content</b></li> </ul>
<b>Install/Update</b>	<p>These parameters are for configuring and automating Guardian application and signature updates. This includes the following pages:</p> <ul style="list-style-type: none"> <li>• <b>Install/Update</b> (main)</li> <li>• <b>Automatic Updates</b></li> </ul>

## Related Tasks

- [Basic Tasks](#)
- [Guardian Agent](#)
- [Workspaces](#)
- [Preferences](#)
- [Proxy Servers](#)
- [Inventories and Evaluations](#)
- [Command Line Interface](#)
- [Troubleshooting](#)
- [Support](#)
- [Updates and Upgrades](#)

## Related Reference

- [Window Menu](#)
- [Navigation Pane](#)
- [Document Pane](#)
- [Wizards](#)
- [Log Files](#)
- [Command Line Interface](#)



# Wizards

Oracle Guardian provides the several wizards for guiding you through some of the more common or complex Guardian tasks.

The following table describes the Guardian wizards and how to invoke them.

**Table 3-49 Guardian Wizards**

Menu Item	Description
<b>Annotations Wizard</b>	Right-click on a signature title in the Signature Explorer or Bundle Explorer and select Annotations from the context menu. This opens a submenu with a single option, <b>Manage Annotations</b> . Select this to open the <b>Annotations Wizard</b> . This contains fields and options for annotating the selected signature. For details, see <a href="#">Annotations Wizard</a> . For instructions on using this wizard, see <a href="#">Signature Annotations</a> of <a href="#">Chapter 2</a> , “Tasks.”
<b>Bundle Evaluation Wizard</b>	Right-click in the Domain Explorer and select <b>Evaluate Bundle</b> from the context menu. This opens a submenu listing the Bundles available for evaluation. Select a Bundle to open the <b>Bundle Evaluation Wizard</b> for that Bundle. For details, see <a href="#">Bundle Evaluation Wizard</a> . For instructions on using this wizard, see <a href="#">Evaluate Bundles</a> in <a href="#">Chapter 2</a> , “Tasks.”
<b>Domain Activation Wizard</b>	This contains fields and options for configuring and activating a domain in Guardian. Click <b>Activate</b> to open the <b>Domain Activation Wizard</b> . For details, see <a href="#">Domain Activation Wizard</a> . For instructions on using this wizard, see <a href="#">Activate Domain</a> in <a href="#">Chapter 2</a> , “Tasks.”
<b>Domain Deactivation Wizard</b>	In <b>Domain Explorer</b> , right-click on a domain entry and select <b>Deactivate Domain</b> from the context menu to open this wizard. This contains a table of all active domains. For details, see <a href="#">Domain Deactivation Wizard</a> . For instructions on using this wizard, see <a href="#">Deactivate Domain</a> in <a href="#">Chapter 2</a> , “Tasks.”
<b>Evaluation Wizard</b>	Click <b>Evaluate</b> to open the <b>Evaluation Wizard</b> for evaluating one or more domains. For details, see <a href="#">Evaluation Wizard</a> . For instructions on using this wizard, see <a href="#">Evaluate Domain</a> in <a href="#">Chapter 2</a> , “Tasks.”

**Table 3-49 Guardian Wizards**

Menu Item	Description
<b>Filters Wizard</b>	<p>Click the <b>Signature Explorer</b> menu icon and select the <b>Filters</b> menu option. The <b>Filters Wizard</b> enables you to specify which signatures to display in Signature Lists.</p> <p>For details, see <a href="#">Filters Wizard</a>. For instructions on using this wizard, see <a href="#">Filter Signatures</a> in <a href="#">Chapter 2, “Tasks.”</a></p>
<b>Inventory Wizard</b>	<p>Click <b>Inventory</b> to open the <b>Inventory Wizard</b>. A Domain Inventory is a snapshot of all of the configuration details for a domain as it exists at that moment. For details, see <a href="#">Inventory Wizard</a>. For instructions on using this wizard, see <a href="#">Inventory Domain</a> in <a href="#">Chapter 2, “Tasks.”</a></p>
<b>Shortcut Wizard</b>	<p>Select <b>File &gt; New &gt; Shortcut</b> to open the <b>Shortcut Wizard</b> for creating and modifying Shortcuts. For details, see <a href="#">Shortcut Wizard</a>. For instructions on using this wizard, see <a href="#">Create Shortcut</a> in <a href="#">Chapter 2, “Tasks.”</a></p>
<b>Shortcut Evaluation Wizard</b>	<p>Click the <b>Shortcut Explorer</b> tab to open the <b>Shortcut Explorer</b>. Then, double-click on a Shortcut name in the Shortcut list to open the <b>Shortcut Evaluation Wizard</b>. For details, see <a href="#">Shortcut Evaluation Wizard</a>. For instructions on using this wizard, see <a href="#">Evaluate Shortcut</a> in <a href="#">Chapter 2, “Tasks.”</a></p>

Table 3-49 Guardian Wizards

Menu Item	Description
Service Request Wizard	Select a signature in an Evaluation Summary and click <b>Get more help from Oracle Support</b> . This opens the <b>Service Request Wizard</b> for the selected signature. This enables you to create a service request archive based on the selected signature. For details, see <a href="#">Service Request Wizard</a> . For instructions on using this wizard, see <a href="#">Creating a Service Request Archive</a> in Chapter 2, “Tasks.”
Update Wizard	<p>Click <b>Update</b> to open the <b>Update Wizard</b>. This wizard enables you to automatically download new Oracle Guardian software and signatures from the Oracle Guardian update site. For details, see <a href="#">Update Wizard</a>. For instructions on using this wizard, see , “” in Chapter 2, “Tasks.”</p> <p><b>WARNING:</b> Upgrading from Guardian 1.0.x to Guardian 1.1 must be done manually. For instructions, see <a href="#">Manually Update Guardian</a> and <a href="#">Manually Update Guardian Registry</a> in Chapter 2, “Tasks.”</p> <p>You <i>can</i> use the <b>Update Wizard</b> to automatically update Guardian when updating from Guardian 1.1.x to Guardian 10g R3 (10.3.0.0). You do not have to update manually in this case.</p>

## Wizard Titlebar Menus

Right-click a wizard titlebar to open a context menu of options to **Move**, **Size**, or **Close** the wizard. You can also move or resize a Wizard by dragging the titlebar or window borders.

# Annotations Wizard

Use the **Annotations** Wizard to create an annotation for a selected signature.

To open the **Annotations** Wizard, first navigate to a signature list containing the signature you want to annotate. Then right-click on the signature title and select **Annotations > Manage Annotations** from the context menu.

For instructions on using this wizard, see [Signature Annotations](#) in [Chapter 2, “Tasks.”](#)

The **Annotations** Wizard contains the following elements:

**Table 3-50 Annotations Wizard**

Element	Description
<b>Annotations Table</b>	This contains a list of the annotations that exist for the selected signature. For a description of Annotations table contents, see <a href="#">Annotations Table</a> .
<b>Add</b>	Click <b>Add</b> to open the <b>Add Annotation</b> dialog box for creating a new annotation for this signature. For instructions, see <a href="#">Annotate Signature</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Edit</b>	Click <b>Edit</b> to open the <b>Edit Annotation</b> dialog box for creating a new annotation for this signature. For instructions, see <a href="#">Edit Annotation</a> in <a href="#">Chapter 2, “Tasks.”</a>
<b>Delete</b>	Select an annotation in the table and click <b>Delete</b> to remove that annotation from this signature.  <b>Note:</b> There is no prompt for confirmation; the annotation is removed immediately.  For instructions, see <a href="#">Delete Annotation</a> in <a href="#">Chapter 2, “Tasks.”</a>

## Annotations Table

The **Annotations** Wizard contains an **Annotations** table listing the annotations that exist for the selected signature.

The **Annotations** table contains the following information for each annotation in the list:

**Table 3-51 Annotations Wizard Annotations Table**

Field	Description
<b>Type</b>	This is the type of annotation. This can be one of the following: <ul style="list-style-type: none"> <li>• <b>Ignore</b> — Ignore this signature for the specified targets.</li> <li>• <b>Flag</b> — Flag this signature for the specified targets.</li> </ul>
<b>Name</b>	This is the annotation name.
<b>Comment</b>	This contains notes about the signature.
<b>Timestamp</b>	This is the date and time the annotation was created.
<b>Domains</b>	These are the target domain(s) for this annotation.
<b>Evaluations</b>	<p>This is the evaluation set to which this annotation applies. This can be one of the following:</p> <ul style="list-style-type: none"> <li>• <b>This Evaluation Only</b></li> <li>• <b>All Evaluations</b></li> </ul> <p><b>Note:</b> This option is available only if the annotation was created for a signature in an Evaluation Summary. Annotations created from other locations do not have this specification.</p>

## Related Tasks

- [Basic Tasks](#)
- [Preferences](#)
- [Domains](#)
- [Inventories and Evaluations](#)
- [Signatures](#)

- [Signature Annotations](#)
- [Bundles](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Domain Explorer](#)
- [Signature Explorer](#)
- [Bundle Explorer](#)
- [Document Views](#)
- [Command Line Interface](#)

## Bundle Evaluation Wizard

Use the **Bundle Evaluation Wizard** to preselect a domain and Bundle for Evaluation, and then initiate the evaluation.

To open the **Bundle Evaluation Wizard**, do the following:

1. In the **Domain Explorer**, open the **Evaluation History** folder.
2. Right-click on an Evaluation Summary and select **Evaluate Bundle** from the context menu.  
This opens a submenu containing a list of Bundles available for evaluation.
3. Select a Bundle to open the **Bundle Evaluation Wizard** for that Bundle.

The **Bundle Evaluation Wizard** opens with the selected domain and Bundle preselected, just as if you had invoked a Shortcut.

For instructions on using this wizard, see [Evaluate Bundles](#) in [Chapter 2, “Tasks.”](#)

The **Bundles Evaluation Wizard** contains the following sections and fields:

**Table 3-52 Bundle Evaluation Wizard**

Sections	Description
<b>Available Domains Table</b>	<p>This lists the currently active domains available to evaluate. The table contains the following fields:</p> <ul style="list-style-type: none"> <li>• <b>Name</b> — This is the domain name.</li> <li>• <b>Admin Server URL</b> — This is the URL for the WebLogic Server Administration Server for this domain.</li> <li>• <b>Bundle</b> — This is the Signature Bundle to be used for the Shortcut Evaluation</li> </ul> <p>Select a domain in this table to specify the domain to evaluate.</p>
<b>Bundle Menu</b>	<p>This is a drop-down menu for selecting the Bundle to be used for this evaluation. Right-click the Bundle entry for a domain in the <b>Available Domains</b> table to display this menu. Select one of the following:</p> <ul style="list-style-type: none"> <li>• <b>All Signatures</b></li> <li>• <b>Configuration Remedy</b></li> <li>• <b>Critical Signatures</b></li> <li>• <b>Default Signatures</b></li> <li>• <b>JRockit JRA Signatures</b></li> <li>• <b>Other Signatures</b></li> <li>• <b>Patch Remedy</b></li> <li>• <b>Security Advisories</b></li> <li>• <b>Service Pack remedy</b></li> <li>• <b>Snapshot-All</b></li> <li>• <b>Snapshot-Deployment Descriptor</b></li> <li>• <b>Snapshot-JDBC</b></li> <li>• <b>Snapshot-JMS</b></li> <li>• <b>Snapshot-JRockit</b></li> <li>• <b>Snapshot-Security</b></li> <li>• <b>Upgrade Remedy</b></li> </ul>
<b>Username</b>	<p>This is the username for a WebLogic Server Administrator or Monitor for this domain.</p>

**Table 3-52 Bundle Evaluation Wizard**

Sections	Description
<b>Password</b>	This is the password for the WebLogic Server Administrator or Monitor specified for <b>Username</b> .
<b>Remember username/password</b>	Select this checkbox to encrypt and store the domain login credentials on disk. This saves you from having to enter the credentials each time you perform a domain operation.

## Related Tasks

- [Basic Tasks](#)
- [Workspaces](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Domain Explorer](#)
- [Signature Explorer](#)



- [Bundle Explorer](#)
- [Shortcut Explorer](#)
- [Evaluation Summary View](#)
- [Text Compare View](#)
- [Signature View](#)
- [Signature Bundle View](#)
- [Command Line Interface](#)

## Domain Activation Wizard

Use the Domain Activations Wizard to activate a domain in Guardian.

You can use any of the following methods to open the wizard:

- Press **Ctrl+Shift+A**.
- Click **Activate** in the Main Toolbar.
- Select **New > Domain** from the **File** menu.
- Click the **Domain Explorer** tab to open the **Domain Explorer**. Then, right-click anywhere in the **Domain Explorer** and select **Activate Domain** from the context menu.

For complete instructions on using this wizard, see [Activate Domain](#) in [Chapter 2, “Tasks.”](#)

**Note:** Oracle recommends using SSL encryption for communication between the client and the Guardian Agent. Guardian uses 128 bit open source encryption for SSL. However, the configuration on the server for the domain determines whether or not Guardian will use 128 bit SSL encryption when activating that domain.

The Domain Activation Wizard contains the following tabs:

- [General Tab](#)
- [Advanced Tab](#)

These are described in the following sections.

## General Tab

The **General** tab contains the following fields:

**Table 3-53 Domain Activations Wizard — General Tab**

Field	Description
<b>Protocol</b>	Select one of the following from the drop-down menu:  <b>Note:</b> Oracle recommends using SSL encryption for communication between the client and the Guardian Agent. <ul style="list-style-type: none"><li>• <b>http://</b> — Select this to use the HTTP protocol without encryption.</li><li>• <b>https://</b> — Select this to use HTTP protocol with Secure Sockets Layer (SSL) encryption (recommended). Guardian uses 128 bit open source encryption for SSL. However, the configuration on the server for the domain determines whether or not Guardian will use 128 bit SSL encryption when activating that domain.</li></ul>
<b>Host Name</b>	This is the listen address for the WebLogic Administration Server in the target domain.
<b>Port Number</b>	This is the listen port for the WebLogic Administration Server for the target domain.
<b>Username</b>	This is the username of a WebLogic Server Administrator or Monitor account on the target domain.
<b>Password</b>	This is the password for the WebLogic Server Administrator or Monitor account on the target domain.
<b>Remember Username/Password</b>	This specifies that the domain credentials are to be stored so that you do not have to enter them for future domain operations. Usernames and passwords are encrypted when stored.

## Advanced Tab

The **Advanced** tab contains the following fields and options:

**Table 3-54 Domain Activation Wizard — Advanced Tab**

Field	Description
<b>Enable Proxy Connection</b>	Select this if a proxy server is to be used to access the target domain. Then, select a proxy server from the drop-down list. Click <b>Add Proxy Servers</b> to add proxy servers to this list. For complete instructions, see <a href="#">Add Inbound Proxy Servers</a> in Chapter 2, “Tasks.”
<b>Max. Agent Threads</b>	Specifies the maximum number of Agent threads to allocate in the WebLogic Server Administration Server. This can be an integer value from <b>1</b> to <b>20</b> . The default is <b>10</b> .
<b>Agent Thread Timeout (secs)</b>	Specifies the maximum number of seconds that can elapse before an Agent thread is deactivated while collecting data from managed servers. This can be an integer value from <b>10</b> to <b>600</b> . The default is <b>60</b> .
<b>Domain Notes</b>	This is a text field in which you can enter text description or other details pertaining to this domain. These notes are displayed in inventories and evaluations for this domain.

## Related Tasks

- [Basic Tasks](#)
- [Guardian Agent](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Proxy Servers](#)
- [Inventories and Evaluations](#)
- [Command Line Interface](#)
- [Updates and Upgrades](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Domain Explorer](#)
- [Active Domains Table](#)
- [Domain Inventory View](#)
- [Evaluation Summary View](#)
- [Keyboard Shortcuts](#)
- [Command Line Interface](#)

## Domain Deactivation Wizard

You can use either of the following methods to open the **Domain Deactivation Wizard**:

- In the **Domain Explorer**, right-click on a domain and select **Deactivate** from the context menu.
- Select **Window > Show View > Active Domains Table**. Then, select a domain from the table and click **Deactivate Domain**.

Select a domain and click **Finish** to deactivate the domain.

**Caution:** You will **not** be prompted to confirm the deactivate operation. The domain will be deactivated immediately.

For complete instructions on using this wizard, see [Deactivate Domain](#) in [Chapter 2, “Tasks.”](#)

The **Domain Deactivation Wizard** contains the following fields:

**Table 3-55 Domain Deactivation Wizard**

Sections	Description
<b>Name</b>	This is the name for this domain.
<b>Admin Server URL</b>	This is the URL for the WebLogic Server Administration Server for this domain.

## Related Tasks

- [Basic Tasks](#)
- [Domains](#)
- [Domain Groups](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Domain Explorer](#)
- [Active Domains Table](#)
- [Domain Inventory View](#)
- [Evaluation Summary View](#)
- [Keyboard Shortcuts](#)
- [Command Line Interface](#)

## Evaluation Wizard

Use the **Evaluation Wizard** to evaluate a domain. You can select one or more domains for evaluation.

You can use any of the following methods to select a domain and open the wizard:

- In the **Domain Explorer**, select a domain and then click the **Evaluation** button. To select multiple domains, press the **Ctrl** or **Shift** key while selecting additional items.
- Right-click on a domain and then select **Evaluate** from the context menu.
- Double-click a domain name in the **Domain Explorer**.
- Select **File > New > Evaluation** from the titlebar.
- Select **Window > Show View > Active Domains Table** to display the **Active Domains Table**. Then, double-click a domain name to open the wizard for the selected domain.

For complete instructions on using this wizard, see [Evaluate Domain](#) in [Chapter 2, “Tasks.”](#)

The **Evaluation Wizard** contains the following fields:

**Table 3-56 Evaluation Wizard**

Fields	Description
<b>Available Domains Table</b>	<p>This lists the currently active domains available to evaluate. The table contains the following fields:</p> <ul style="list-style-type: none"> <li>• <b>Name</b> — This is the domain name.</li> <li>• <b>Admin Server URL</b> — This is the URL for the WebLogic Server Administration Server for this domain.</li> <li>• <b>Bundle</b> — This is the Signature Bundle to be used for the Shortcut Evaluation</li> </ul> <p>Select a domain in this table to specify the domain to evaluate.</p>
<b>Bundle Menu</b>	<p>This is a drop-down menu for selecting the Bundle to be used for this evaluation. Right-click the Bundle entry for a domain in the <b>Available Domains</b> table to display a list of the available Bundles. Select a Bundle from the list.</p>
<b>Username</b>	<p>This is the username for a WebLogic Server Administrator or Monitor for this domain.</p>

**Table 3-56 Evaluation Wizard**

Fields	Description
<b>Password</b>	This is the password for the WebLogic Server Administrator or Monitor specified for <b>Username</b> .
<b>Remember username/password</b>	Select this checkbox to encrypt and store the domain login credentials on disk. This saves you from having to enter the credentials each time you perform a domain operation.
<b>Create Shortcut</b>	Select this checkbox to create a Shortcut for this evaluation. This is useful if you routinely perform this particular type of evaluation. For detailed instructions on creating, evaluating, and managing Shortcuts, see the section entitled, <a href="#">Shortcuts</a> in <a href="#">Chapter 2</a> , “Tasks.”
<b>Shortcut Name</b>	This is a text field for entering the name of the new Shortcut.

## Related Tasks

- [Basic Tasks](#)
- [Workspaces](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Proxy Servers](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Shortcuts](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Command Line Interface](#)
- [Domain Explorer](#)
- [Active Domains Table](#)
- [Evaluation Summary View](#)
- [Text Compare View](#)
- [Signature View](#)
- [Service Request Wizard](#)

## Filters Wizard

Use the **Filters** Wizard to specify which signatures to display in signature lists.

You can use either of the following methods to open the wizard:

- From the **Signature Explorer** or **Bundle Explorer**:

In the Explorer toolbar, click the menu icon and select **Filters...** from the menu.

- From an Evaluation Summary:

Right-click on any signature in the **Detected Signatures** list, and select **Filters...** from the context menu.

For complete instructions on using this wizard, see [Filter Signatures](#) in [Chapter 2, “Tasks.”](#)



The **Filters** Wizard contains the following sections and fields:

**Table 3-57 Filters Wizard Sections and Fields**

Section	Description
<b>Name</b>	<p>Filter according to name. This section contains the following fields and options:</p> <ul style="list-style-type: none"> <li>• <b>Show Name</b> (radio button)</li> <li>• <b>Hide Name</b> (radio button)</li> <li>• <b>Name</b> — (Text field) Specify all or a portion of a signature name to use as the filter criteria. This can be a character string or standard regular expression. Enter .* to filter all signatures. The default is <b>Show all</b> (.*)</li> </ul>
<b>Severity</b>	<p>Filter according to severity. This section contains the following options:</p> <ul style="list-style-type: none"> <li>• <b>Show Severity</b></li> <li>• <b>Hide Severity</b></li> </ul> <p>Select one of the above, and then select/deselect a severity level. These are:</p> <ul style="list-style-type: none"> <li>• <b>Critical</b></li> <li>• <b>Warning</b></li> <li>• <b>Information</b></li> </ul> <p>The default is <b>Show all</b> (all selected).</p>
<b>Type</b>	<p>Filter annotated signatures according to Annotation Type. This section contains the following options:</p> <p><b>Show Type</b></p> <p><b>Hide Type</b></p> <p><b>Annotation Name</b></p> <p>Select one of the above, and then select/deselect an Annotation Type. These are:</p> <ul style="list-style-type: none"> <li>• <b>Flag</b></li> <li>• <b>Ignore</b></li> </ul> <p>The default is <b>Hide</b> signatures with an Annotation Type of <b>Ignore</b>. For more information on Annotation Types, see <a href="#">Signature Annotations</a> in <a href="#">Chapter 1, “About Oracle Guardian.”</a></p>

**Table 3-57 Filters Wizard Sections and Fields**

Section	Description
<b>Annotation Name</b>	<p>Filter annotated signatures according to Annotation Name. This section contains the following options:</p> <ul style="list-style-type: none"> <li>• <b>Show Annotation Name</b></li> <li>• <b>Hide Annotation Name</b></li> <li>• <b>Annotation Name</b> — (Text field) Specify all or a portion of an annotation name to use as the filter criteria. This can be a character string or standard regular expression. Enter .* to filter all annotations.</li> </ul> <p>The default is <b>Show</b> all (.*)</p>
<b>Comment</b>	<p>Filter annotated signatures according to annotation comment. Specify all or a portion of a comment to use as the filter criteria. This can be a character string or standard regular expression. Enter .* to filter all signatures. The default is <b>Show</b> all (.*)</p>
<b>Domain</b>	<p>Filter annotated signatures in this domain. This section contains the following options:</p> <ul style="list-style-type: none"> <li>• <b>Show Domain</b></li> <li>• <b>Hide Domain</b></li> </ul> <p>The default is <b>Show Domain</b>.</p>
<b>Evaluation</b>	<p>Filter annotated signatures in this Evaluation. This section contains the following options:</p> <ul style="list-style-type: none"> <li>• <b>Show Evaluation</b></li> <li>• <b>Hide Evaluation</b></li> </ul> <p>The default is <b>Show Evaluation</b>.</p>

## Related Tasks

- [Basic Tasks](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Inventories and Evaluations](#)

- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Signature Explorer](#)
- [Bundle Explorer](#)
- [Evaluation Summary View](#)
- [Signature View](#)

## Inventory Wizard

Use the **Inventory Wizard** to inventory a domain.

You can use any of the following methods to open the wizard:

- Press **Ctrl+Shift+I**.
- Click **Inventory** on the Main Toolbar.
- Select **File > New > Inventory**.
- In the **Domain Explorer**, right-click on a domain name in the **Domain Explorer** tree and select **Inventory** from the context menu.

For a description of Domain Inventories, see [Domain Inventory](#) in [Chapter 1, “About Oracle Guardian.”](#) For instructions on using the Domain Inventory Wizard, see [Inventory Domain of Chapter 2, “Tasks.”](#)

The **Inventory Wizard** contains the following sections and fields:

**Table 3-58 Inventory Wizard**

Section/Field	Description
<b>Available Domains Table</b>	<p>This lists the currently active domains available to inventory. The table contains the following fields:</p> <ul style="list-style-type: none"><li>• <b>Name</b> — This is the domain name.</li><li>• <b>Admin Server URL</b> — This is the URL for the WebLogic Server Administration Server for this domain.</li></ul> <p>Select a domain in this table to specify the domain to inventory.</p>
<b>Username</b>	This is the username for a WebLogic Server Administrator or Monitor for this domain.
<b>Password</b>	This is the password for the WebLogic Server Administrator or Monitor specified for <b>Username</b> .
<b>Remember username/password</b>	Select this checkbox to encrypt and store the domain login credentials on disk. This saves you from having to enter the credentials each time you perform a domain operation.

## Related Tasks

- [Basic Tasks](#)
- [Workspaces](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Proxy Servers](#)
- [Inventories and Evaluations](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)

- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Command Line Interface](#)
- [Domain Explorer](#)
- [Active Domains Table](#)
- [Domain Activation Wizard](#)
- [Domain Inventory View](#)

## Shortcut Wizard

Use the **Shortcut Wizard** to create an Evaluation Shortcut.

You can use any of the following methods to open the wizard:

- Press **Ctrl+Shift+S**.
- Select **File > New > Shortcut**.
- Select **Window > Show View > Shortcuts Table** to open the **Shortcuts Table**. Then, click **Add Shortcut** in the **Shortcuts Table** toolbar.
- Right-click in the **Domain Explorer** or **Shortcut Explorer** and select **Add Shortcut** from the context menu.

For a description of Shortcuts, see [Shortcut](#) in [Chapter 1, “About Oracle Guardian.”](#) For instructions, see [Create Shortcut](#) in [Chapter 2, “Tasks.”](#)

The **Shortcut Wizard** contains the following sections and fields:

**Table 3-59 Shortcut Wizard**

Fields	Description
<b>Available Domains Table</b>	<p>This lists the currently active domains available to evaluate. The table contains the following fields:</p> <ul style="list-style-type: none"> <li>• <b>Name</b> — This is the domain name.</li> <li>• <b>Admin Server URL</b> — This is the URL for the WebLogic Server Administration Server for this domain.</li> <li>• <b>Bundle</b> — This is the Signature Bundle to be used for the Shortcut Evaluation</li> </ul> <p>Select a domain in this table to specify the domain to evaluate.</p>
<b>Bundle Menu</b>	<p>This is a drop-down menu for selecting the Bundle to be used for this evaluation. Right-click the Bundle entry for a domain in the <b>Available Domains</b> table to display a list of the available Bundles. Select a Bundle from the list.</p>
<b>Create Shortcut</b>	<p>Select this checkbox to create a Shortcut for this evaluation. This is useful if you routinely perform this particular type of evaluation. For detailed instructions on creating, evaluating, and managing Shortcuts, see the section entitled, <a href="#">Shortcuts</a> in <a href="#">Chapter 2, “Tasks.”</a></p>
<b>Shortcut Name</b>	<p>This is a text field for entering the name of the new Shortcut.</p>

## Related Tasks

- [Basic Tasks](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)

- [Bundles](#)
- [Shortcuts](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Command Line Interface](#)
- [Shortcuts Table](#)
- [Shortcut Explorer](#)
- [Domain Explorer](#)
- [Active Domains Table](#)
- [Signature Bundle View](#)
- [Shortcut Evaluation Wizard](#)
- [Evaluation Summary View](#)

## Shortcut Evaluation Wizard

Use the Shortcut **Evaluation Wizard** to evaluate a selected Shortcut.

You can use any of the following methods to open the wizard:

- Select **Window > Show View > Shortcuts Table** to open the **Shortcuts Table**. Then, double-click on a Shortcut name in the **Shortcut Table**.
- Click the **Shortcut Explorer** tab to open the **Shortcut Explorer**. Then, double-click on a Shortcut name in the Shortcut list.
- Click the **Shortcut Explorer** tab to open the **Shortcut Explorer**. Then, right-click on a Shortcut name in the Shortcut list and select **Evaluate Shortcut** from the context menu.

For a description of Shortcuts, see [Shortcut](#) in [Chapter 1, “About Oracle Guardian.”](#) For instructions, see [Evaluate Shortcut](#) in [Chapter 2, “Tasks.”](#)

The **Shortcut Evaluation Wizard** contains the following sections and fields:

**Table 3-60 Shortcut Evaluation Wizard**

Fields	Description
<b>Available Domains Table</b>	<p>This lists the currently active domains available to evaluate. The table contains the following fields:</p> <ul style="list-style-type: none"> <li>• <b>Name</b> — This is the domain name.</li> <li>• <b>Admin Server URL</b> — This is the URL for the WebLogic Server Administration Server for this domain.</li> <li>• <b>Bundle</b> — This is the Signature Bundle to be used for the Shortcut Evaluation</li> </ul> <p>Select a domain in this table to specify the domain to evaluate.</p>
<b>Bundle Menu</b>	<p>This is a drop-down menu for selecting the Bundle to be used for this evaluation. Right-click the Bundle entry for a domain in the <b>Available Domains</b> table to display a list of the available Bundles. You can change the Bundle selection, but only for the current evaluation. The Bundle for that Shortcut will remain unchanged for future invocations of the <b>Shortcut Evaluation Wizard</b>.</p>
<b>Username</b>	<p>This is the username for a WebLogic Server Administrator or Monitor for this domain.</p>



**Table 3-60 Shortcut Evaluation Wizard**

Fields	Description
<b>Password</b>	This is the password for the WebLogic Server Administrator or Monitor specified for <b>Username</b> .
<b>Remember username/password</b>	Select this checkbox to encrypt and store the domain login credentials on disk. This saves you from having to enter the credentials each time you perform a domain operation.

## Related Tasks

- [Basic Tasks](#)
- [Preferences](#)
- [Domains](#)
- [Domain Groups](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Signature Annotations](#)
- [Bundles](#)
- [Shortcuts](#)
- [Command Line Interface](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Command Line Interface](#)
- [Shortcut Explorer](#)

- [Domain Explorer](#)
- [Shortcuts Table](#)
- [Evaluation Summary View](#)
- [Active Domains Table](#)
- [Shortcut Wizard](#)
- [Evaluation Wizard](#)

## Service Request Wizard

You can use the **Service Request Wizard** to create a service request archive based on a detected signature, which can be submitted to Oracle Customer Support at your convenience.

To open the **Service Request Wizard**, do the following:

1. Open the Evaluation Summary containing the signature you want to include in the support service request.

Double-click on an Evaluation Summary entry in the **Domain Explorer**.

2. Select the signature you want to include in the support service request.

Click on a signature entry to highlight it. This displays the **Description** and **Remedy** for the signature in the bottom portion of the **Evaluation Summary** View in the Document Pane.

3. Click the **Get more help from Oracle support** link at the bottom of the signature **Remedy** section to open the wizard.

For a description of a Guardian Service Request Archive, see [Support Service Request](#) in [Chapter 1, “About Oracle Guardian.”](#) For instructions on using the wizard, see [Creating a Service Request Archive](#) in [Chapter 2, “Tasks.”](#)

The **Service Request Wizard** presents a series of pages that guide you through the service request creation process. These pages are as follows:

**Table 3-61 Service Request Wizard**

Page	Description
<b>Select Server Node</b>	<p><b>Note:</b> If there is only one server in your domain, then the Administration Server is used by default and this step is skipped.</p> <p>Specifies the server node for the domain that has the detected signature. To change the server node preselected in the dialog box, select another server from the pull down list.</p>
<b>Service Request Notes</b>	In the <b>Additional Service Request Notes</b> field, enter any additional text that may be helpful to Oracle customer support in resolving your service request.
<b>Select Service Request Attachments</b>	<p>Select the background information files to include with the service request. These attachments save the Oracle Support Engineer time so that your service request can be resolved more quickly. You can select one or more of the following:</p> <ul style="list-style-type: none"> <li>• <b>Service Request Attachments:</b> <ul style="list-style-type: none"> <li>– <b>Domain Inventory</b></li> <li>– <b>Detected Signature Results</b></li> </ul> </li> <li>• <b>Recommended Attachments:</b> <ul style="list-style-type: none"> <li>– <b>Server Log</b></li> </ul> </li> <li>• <b>Other Attachments:</b></li> </ul>
<b>Domain Login</b>	Specify the username and password for a WebLogic Server Administrator or Monitor for this domain.
<b>Select Service Request Archive Destination</b>	In the <b>Select Archive Location</b> field, enter the location to which to save the service request archive file, or click the ellipsis (...) to open a file browser from which you can select the location.

## Related Tasks

- [Basic Tasks](#)
- [Guardian Agent](#)
- [Preferences](#)

- [Proxy Servers](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Bundles](#)
- [Command Line Interface](#)
- [Troubleshooting](#)
- [Support](#)
- [Updates and Upgrades](#)

## Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Command Line Interface](#)
- [Evaluation Summary View](#)
- [Text Compare View](#)
- [Signature View](#)
- [Evaluation Wizard](#)

## Update Wizard

Use the **Update Wizard** to update your Guardian software and signature Bundles.

You can use either of the following methods to open the wizard:

- Press **Ctrl+Shift+U**.
- Click the **Update** button on the Main Toolbar.
- Select **Help > Software Updates > Guardian Updates**.

For a description of this feature, see [Update Guardian](#) in [Chapter 1, “About Oracle Guardian.”](#)  
 For instructions on using the wizard, see [Automatically Update Guardian](#) in [Chapter 2, “Tasks.”](#)

The **Update Wizard** presents a series of pages that guide you through the update process. The following table describes each of these pages.

**Table 3-62 Update Wizard**

Page	Description
<b>My Oracle Support Login</b>	Enter your Oracle My Support <b>Username</b> and <b>Password</b> . Select the <b>Remember username/password</b> checkbox to encrypt and store the domain login credentials on disk. This will save you having to enter the credentials each time you use the <b>Update Wizard</b> .
<b>Select CSI</b>	Select a Customer Support Identifier from the <b>Select CSI</b> menu. If you have only one CSI, this field is disabled.
<b>No Updates Dialog Box</b>	If there are no new signatures or application features available, a dialog box prompts you to try again at a later time.
<b>Search Results</b>	If there are new signatures or application features available, this page displays the results. Expand the folders in the <b>Select the features to install</b> tree to see the available selections.
<b>Feature License</b>	Click the radio button to accept the terms in the license agreement and proceed with the installation.
<b>Installation Location</b>	Select the installation location, or accept the default. Click <b>Change Location</b> to open a directory browser from which you can select the location. A progress indicator tracks the progress as the updates are downloaded.
<b>Feature Verification</b>	Verify the list of features to install, and click <b>Install</b> or <b>Install All</b> .
<b>Restart Guardian</b>	After the updates are installed, you are prompted as to whether to restart Guardian. Click <b>Yes</b> to restart Guardian and incorporate the new features.

## Related Tasks

- [Basic Tasks](#)

## Reference

- [Guardian Agent](#)
- [Workspaces](#)
- [Preferences](#)
- [Proxy Servers](#)
- [Command Line Interface](#)
- [Troubleshooting](#)
- [Support](#)
- [Updates and Upgrades](#)

### Related Reference

- [Navigation Pane](#)
- [Document Pane](#)
- [Preferences](#)
- [Wizards](#)
- [Main Toolbar](#)
- [Command Line Interface](#)

## Log Files

The Oracle Guardian log files contain information that Oracle Customer Support can use to diagnose and resolve issues with your Guardian system.

The Guardian log files are as follows:

**Table 3-63 Guardian Log Files**

File Name	Description
<code>guardian.log</code>	This is located in the Guardian installation directory you specified during installation. This file contains information about every operation the Guardian application performs.
<code>signature.log</code>	This is located in the Guardian installation directory you specified during installation. This file contains information about each evaluation performed, including entries for all detected signatures. You can also use a command line script to automatically scan the <code>signature.log</code> for detected signatures, and to automatically receive notifications when new signatures are detected.
<code>.log</code>	This is located in the <code>.metadata</code> subdirectory of the Guardian Workspace directory you specified when starting Guardian. This file contains information about certain Guardian operations.
<code>install.log</code>	This is located in the subdirectory <code>../configuration/org.eclipse.update</code> residing in the Guardian installation directory you specified during installation. This file contains Guardian installation details.

## Related Tasks

- [Basic Tasks](#)
- [Workspaces](#)
- [Preferences](#)
- [Domains](#)
- [Inventories and Evaluations](#)
- [Command Line Interface](#)
- [Troubleshooting](#)
- [Support](#)
- [Updates and Upgrades](#)

## Related Reference

- [Command Line Interface](#)

# Command Line Interface

The Guardian Command Line Interface (CLI)—also referred to as *Guardian Headless Mode*—is a set of Guardian commands that can be issued directly from the operating system command prompt. There is a Guardian CLI command for each of the most common tasks you can perform using the Guardian User Interface.

The Guardian command interpreter is an executable `.cmd` batch file for Windows, and a `.sh` shell script for Linux. Both the Windows batch file and the Linux shell script are wrappers that accumulate and organize arguments to the **Java** command.

For instructions on starting and using the Command Line Interface, see [Command Line Interface](#) in [Chapter 2, “Tasks.”](#)

## Important Notes

The following are some guidelines for using the Command Line Interface. For complete instructions on using the CLI commands, see [Command Line Interface](#) in [Chapter 2, “Tasks.”](#)



- The Command Line Interface uses your specified Guardian Workspace as the location for all CLI operations, unless you specify otherwise in each command. Identifying the Guardian Workspace location is essential for accessing the correct set of active domains, Domain Inventories, and Evaluation Summaries. For instructions on selecting a Guardian Workspace, see [Select Workspace](#) in [Chapter 2, “Tasks.”](#)
- Guardian Command Line Interface commands are case sensitive.
- Each command must include the prefix **-g** with no trailing space, as shown in the following example:

```
guardianHeadless.cmd -glistActiveDomains
```

- Quotes are required for command parameters only if the parameter contains a space.
- On Linux, command output is directed by default to `stdout` and `stderr`. On Windows, command output is written to the following output file:

```
headless_output.txt
```

The output file is created in your current directory, and is overwritten each time you run a Guardian Headless Mode command. For instructions on redirecting this to a different file, see [Redirecting Guardian CLI Command Output](#) in [Chapter 2, “Tasks.”](#)

- To create an output file containing the list of CLI commands and their syntax, type the following command at the operating system prompt:

```
guardianHeadless.cmd -ghelp
```

The following section provides an overview of the Command Line Interface commands.

## Overview of CLI Commands

The following table provides a brief description of each of the Guardian Command Line Interface commands. For a detailed description and syntax for each command, see [CLI Command Reference](#).

**Table 3-64 Guardian Command Line Interface Commands**

Command	Description
<b>activateDomain</b>	Activate the specified domain and return the domain identifier.
<b>createShortcut</b>	Create a Shortcut for the specified domain and Bundle.

**Table 3-64 Guardian Command Line Interface Commands**

<b>deactivateDomain</b>	Deactivate the specified domain.
<b>deleteShortcut</b>	Delete the specified Shortcut.
<b>evaluateDomainBundle</b>	Evaluate the specified domain and Bundle. To see the results, open the Guardian User Interface and open the <b>Domain Explorer &gt; Evaluation History</b> folder and select the evaluation. The results are displayed in the <b>Evaluation Summary</b> View in the Document Pane.
<b>evaluateShortcut</b>	Evaluate the domain and Bundle associated with the specified Shortcut. To see the results, open the Guardian User Interface and open the <b>Domain Explorer &gt; Evaluation History</b> folder and select the evaluation. The results are displayed in the <b>Evaluation Summary</b> View in the Document Pane.
<b>help</b>	Display the list of commands and command syntax.
<b>inventoryDomain</b>	Inventory the specified domain. To see the results, open the Guardian User Interface and open the <b>Domain Explorer &gt; Inventory History</b> folder and select the inventory. The results are displayed in the <b>Domain Inventory</b> View in the Document Pane.
<b>listActiveDomains</b>	List the active domains in Domain Identifier format.
<b>listBundles</b>	List the Bundle identifier and Bundle name for each of the available Signature Bundles.
<b>listShortcuts</b>	List the Shortcuts available for evaluation.
<b>script</b>	Execute the commands contained in the specified script file.

See [Overview of CLI Commands](#) for a detailed description of each of these commands.

## CLI Command Reference

This section describes the syntax, arguments, and usage for each of the Command Line Interface commands. For instructions on starting and using the Command Line Interface, see [Command Line Interface](#) in Chapter 2, “Tasks.”

### activateDomain

Activate the specified domain and return the domain identifier.

```
activateDomain -t targetUrl -u username -p password
[ -c persistCredentials ] [ -data workspaceDir ] [ -x proxy ]
[ -m maxAgentThreads ] [ -o agentThreadTimeoutSecs ]
```

The arguments for this command are described in the following table:

**Table 3-65 activateDomain Command Arguments**

Argument	Description
<i>targetUrl</i>	(Without quotes) This is the address of the Administration Server for the domain, in the following format: <b>http://&lt;listen-address&gt;:&lt;port-number&gt;</b>
<i>username</i>	This is the username for the Administrator or Monitor account for the specified domain.
<i>password</i>	This is the password for the Administrator or Monitor account for the specified domain.
<i>persistCredentials</i>	( <b>true</b> or <b>false</b> , without quotes) This specifies whether to persist the username and password. If set to <b>true</b> , the login credentials will be saved on disk in encrypted form. The default is <b>false</b> .
<i>workspaceDir</i>	(In quotes) This is the absolute pathname for the Guardian Workspace.
<i>proxy</i>	(Without quotes) This is the proxy IP address and port, in the following format: <b>proxyIPAddress:port</b>

**Table 3-65 activateDomain Command Arguments**

Argument	Description
<i>maxAgentThreads</i>	Specifies the maximum number of Agent threads to allocate in the WebLogic Server Administration Server. This can be an integer value from <b>1</b> to <b>20</b> . The default is <b>10</b> .
<i>agentThreadTimeoutSecs</i>	Specifies the maximum time in seconds before a Guardian Agent thread is terminated when collecting data from managed servers.

## createShortcut

Create a Shortcut for the specified domain and Bundle.

```
createShortcut -d domainId [ -b bundleId ] [ -s shortcutName ]
[ -data workspaceDir ]
```

The arguments for this command are described in the following table:

**Table 3-66 createShortcut Command Arguments**

Argument	Description
<i>domainId</i>	This is the Domain Identifier for the Shortcut.
<i>bundleId</i>	(Numeric) This is the Bundle Identifier for the Shortcut. The default is <b>0</b> , which is the identifier for the Bundle named <b>Default Signatures</b> . Use the <b>listBundles</b> command to see the list of Bundle values.
<i>shortcutName</i>	(In quotes) This is the name of the Shortcut. The default is: " <b>&lt;bundle_name&gt; in &lt;domain_name&gt;</b> " For example: <b>Critical Signatures in TestDomain</b> Where: <b>Critical Signatures</b> is the name of the Bundle and <b>TestDomain</b> is the domain name.
<i>workspaceDir</i>	(In quotes) This is the absolute pathname for the Guardian Workspace.

## deactivateDomain

Deactivate the specified domain.

```
deactivateDomain -d domainId [ -l deleteUserData ] [ -data workspaceDir ]
```

The arguments for this command are described in the following table:

**Table 3-67 deactivateDomain Command Arguments**

Argument	Description
<i>domainId</i>	This is the Domain Identifier of the domain to be deactivated.
<i>deleteUserData</i>	( <b>true</b> or <b>false</b> , without quotes) This specifies whether to delete the Domain Inventories and Evaluation Summaries from the Guardian Workspace. The default is <b>false</b> .
<i>workspaceDir</i>	(In quotes) This is the absolute pathname for the Guardian Workspace.

## deleteShortcut

Delete the specified Shortcut.

```
deleteShortcut -s shortcutName [ -data workspaceDir ]
```

The arguments for this command are described in the following table:

**Table 3-68 deleteShortcut Command Arguments**

Argument	Description
<i>shortcutName</i>	(In quotes) This is the name of the Shortcut to be deleted, as listed in the output from the <b>listShortcuts</b> command.
<i>workspaceDir</i>	(In quotes) This is the absolute pathname for the Guardian Workspace.

## evaluateDomainBundle

Evaluate the specified domain and Bundle. To see the results, open the Guardian User Interface and open the **Domain Explorer > Evaluation History** folder and select the evaluation. The results are displayed in the **Evaluation Summary** View in the Document Pane.

```
evaluateDomainBundle -d domainId [ -b bundleId ]
[ -u username -p password ] [ -c persistCredentials ] [ -data workspaceDir ]
```

The arguments for this command are described in the following table:

**Table 3-69 evaluateDomainBundle Command Arguments**

Argument	Description
<i>domainId</i>	This is the Domain Identifier of the domain to be evaluated.
<i>bundleId</i>	(Numeric) This is the Bundle Identifier for the Bundle to be evaluated. The default is <b>0</b> , which is the identifier for the Bundle named <b>Default Signatures</b> . Use the <b>listBundles</b> command to see the list of Bundle values.
<i>username</i>	(Not required if <b>persistCredentials</b> is set to <b>true</b> in <b>activateDomain</b> .) This is the username for the Administrator or Monitor account for the specified domain.
<i>password</i>	(Not required if <b>persistCredentials</b> is set to true in <b>activateDomain</b> .) This is the password for the Administrator or Monitor account for the specified domain.
<i>persistCredentials</i>	( <b>true</b> or <b>false</b> , without quotes) This specifies whether to persist the username and password. If set to <b>true</b> , the login credentials will be saved on disk in encrypted form. The default is <b>false</b> .
<i>workspaceDir</i>	(In quotes) This is the absolute pathname for the Guardian Workspace.

## evaluateShortcut

Evaluate the domain and Bundle associated with the specified Shortcut. To see the results, open the Guardian User Interface and open the **Domain Explorer > Evaluation History** folder and select the evaluation. The results are displayed in the **Evaluation Summary** View in the Document Pane.

```
evaluateShortcut -s shortcutName [ -u username -p password ]
[ -c persistCredentials ] [ -data workspaceDir ]
```

The arguments for this command are described in the following table:

**Table 3-70 evaluateShortcut Command Arguments**

Argument	Description
<i>shortcutName</i>	(In quotes) This is the name of the Shortcut to be evaluated.
<i>username</i>	(Not required if <b>persistCredentials</b> is set to <b>true</b> in <b>activateDomain</b> .) This is the username for the Administrator or Monitor account for the specified domain.
<i>password</i>	(Not required if <b>persistCredentials</b> is set to <b>true</b> in <b>activateDomain</b> .) This is the password for the Administrator or Monitor account for the specified domain.
<i>persistCredentials</i>	( <b>true</b> or <b>false</b> , without quotes) This specifies whether to persist the username and password. If set to <b>true</b> , the login credentials will be saved on disk in encrypted form. The default is <b>false</b> .
<i>workspaceDir</i>	(In quotes) This is the absolute pathname for the Guardian Workspace.

## help

Display the list of commands and command syntax.

There are no arguments for this command.

## inventoryDomain

Inventory the specified domain. To see the results, open the Guardian User Interface and open the **Domain Explorer > Inventory History** folder and select the inventory. The results are displayed in the **Domain Inventory** View in the Document Pane.

```
inventoryDomain -d domainId [ -u username -p password ]
```

The arguments for this command are described in the following table:

**Table 3-71 inventoryDomain Command Arguments**

Argument	Description
<i>domainId</i>	This is the Domain Identifier of the domain to be evaluated.
<i>username</i>	(Not required if <b>persistCredentials</b> is set to <b>true</b> in <b>activateDomain</b> .) This is the username for the Administrator or Monitor account for the specified domain.
<i>password</i>	(Not required if <b>persistCredentials</b> is set to true in <b>activateDomain</b> ) This is the password for the Administrator or Monitor account for the specified domain

## listActiveDomains

List the active domains in domain identifier format.

```
listActiveDomains [ -data workspaceDir ]
```

The arguments for this command are described in the following table:

**Table 3-72 listActiveDomains Command Arguments**

Argument	Description
<i>workspaceDir</i>	(In quotes) This is the absolute pathname for the Guardian Workspace.



## listBundles

List the Bundle identifier and Bundle name for each of the available Signature Bundles.

```
listBundles [ -data workspaceDir ]
```

The arguments for this command are described in the following table:

**Table 3-73 listBundles Command Arguments**

Argument	Description
<i>workspaceDir</i>	(In quotes) This is the absolute pathname for the Guardian Workspace.

## listShortcuts

List the Shortcuts available for evaluation.

```
listShortcuts [ -data workspaceDir ]
```

The arguments for this command are described in the following table:

**Table 3-74 listShortcuts Command Arguments**

Argument	Description
<i>workspaceDir</i>	(In quotes) This is the absolute pathname for the Guardian Workspace.

## script

Execute the commands contained in the specified script file.

```
script -f scriptname [ -data workspaceDir ]
```

The arguments for this command are described in the following table:

**Table 3-75 script Command Arguments**

Argument	Description
<i>scriptname</i>	This is the name of a script file containing Guardian commands. Each command must be on a separate line. For instructions, see <a href="#">Run Scripts</a> in <a href="#">Chapter 2, “Tasks.”</a>
<i>workspaceDir</i>	(In quotes) This is the absolute pathname for the Guardian Workspace.

## Related Tasks

- [Basic Tasks](#)
- [Guardian Agent](#)
- [Workspaces](#)
- [Domains](#)
- [Proxy Servers](#)
- [Inventories and Evaluations](#)
- [Signatures](#)
- [Bundles](#)
- [Shortcuts](#)
- [Command Line Interface](#)
- [Troubleshooting](#)
- [Updates and Upgrades](#)

## Related Reference

- [Wizards](#)
- [Log Files](#)
- [Domain Explorer](#)

- [Signature Explorer](#)
- [Bundle Explorer](#)
- [Shortcut Explorer](#)
- [Domain Inventory View](#)
- [Evaluation Summary View](#)
- [Text Compare View](#)
- [Signature View](#)
- [Signature Bundle View](#)
- [Active Domains Table](#)
- [Shortcuts Table](#)

## Reference

# Appendix A: Apache License

## Apache License

The following applies to all products licensed under the Apache 2.0 License. You may not use the identified files except in compliance with the Apache License, Version 2.0 (the "License"). You may obtain a copy of the License at: <http://www.apache.org/licenses/LICENSE-2.0>. A copy of the license is also reproduced below. Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

**Apache License**  
**Version 2.0, January 2004**  
**<http://www.apache.org/licenses/>**

### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### **1. Definitions.**

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such

entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

**2. Grant of Copyright License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

**3. Grant of Patent License.** Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

**4. Redistribution.** You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and (
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License.

You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License. You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

**5.Submission of Contributions.** Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

**6. Trademarks.** This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

**7. Disclaimer of Warranty.** Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

**8. Limitation of Liability.** In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

**9. Accepting Warranty or Additional Liability.** While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format.



We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2008 [name of copyright owner] Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at <http://www.apache.org/licenses/LICENSE-2.0>. Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## Apache Modules

### Apache xerces

Available at: <http://xerces.apache.org/>

- Some portions of this source:  
Copyright (c) 2000 World Wide Web Consortium, (Massachusetts Institute of Technology, Institut National de Recherche en Informatique et en Automatique, Keio University).
- Some portions of this source:  
Copyright (c) 1999,2000 The Apache Software Foundation.

### Apache log4j

Available at: <http://logging.apache.org/log4j/docs/>

Copyright 2007 The Apache Software Foundation

### Apache commons http client

Available at: <http://jakarta.apache.org/commons/httpclient/>

Copyright 1999-2008 The Apache Software Foundation.

### Apache commons lang

Available at: <http://jakarta.apache.org/commons/lang/>

Copyright 2001-2008 The Apache Software Foundation.

### **Apache commons logging**

Available at: <http://jakarta.apache.org/commons/logging/>

Copyright 2003-2007 The Apache Software Foundation.

### **Apache XMLbeans available at <http://xmlbeans.apache.org/>**

Portions of this software were originally based on BEA Systems software, copyright (c) 2000-2003, BEA Systems. Available at: <http://www.bea.com/>

Aside from contributions to the Apache XMLBeans project, this software also includes:

- One or more source files from the Apache Xerces-J and Apache Axis products  
Copyright (c) 1999-2003 Apache Software Foundation.
- W3C XML Schema Documents  
Copyright 2001-2003 (c) World Wide Web Consortium (Massachusetts Institute of Technology, European Research Consortium for Informatics and Mathematics, Keio University)
- **resolver.jar** from Apache Xml Commons project,  
Copyright (c) 2001-2003 Apache Software Foundation.
- Piccolo XML Parser for Java  
Available at: <http://piccolo.sourceforge.net/>  
Copyright 2002 Yuval Oren under the terms of the Apache Software License 2.0.
- JSR-173 Streaming API for XML  
Available at: <http://sourceforge.net/projects/xmlpullparser/>  
Copyright 2005 BEA under the terms of the Apache Software License 2.0.

### **Apache lucene**

Available at: <http://lucene.apache.org/java/docs/>

Copyright 2006 The Apache Software Foundation.

### **Spring framework**

Available at: <http://www.springframework.org/>

Copyright 2002-2008 the original author or authors.

**Apache batik**

Available at: <http://xmlgraphics.apache.org/batik/>

Copyright 1999-2007 The Apache Software Foundation.

**Apache commons codec**

Available at: <http://commons.apache.org/codec/>

Copyright 2001-2008 The Apache Software Foundation.

**Apache derby**

Available at: <http://db.apache.org/derby/>

Copyright 2004-2008 The Apache Software Foundation.

**Apache tomcat**

Available at: <http://tomcat.apache.org/>

Copyright (c) 1999 The Apache Software Foundation.

**Jetty**

Available at: <http://www.mortbay.org/jetty>

Copyright 2006 Mort Bay Consulting Pty. Ltd.

**Stax**

Available at: <http://stax.codehaus.org/>

- Some portions of this source:  
Copyright (c) 2000 The Apache Software Foundation.
- Some portions of this source:  
Copyright (c) 2003 by BEA Systems.

## **cglib**

Available at: <http://cglib.sourceforge.net/>

- Some portions of this source:

Copyright (c) 2000,2002,2003 INRIA, France Telecom.

- Some portions of this source:

Copyright 2003,2004 The Apache Software Foundation.

# Appendix B: Eclipse License

## Eclipse Foundation Software User Agreement

March 17, 2005

### Usage Of Content

THE ECLIPSE FOUNDATION MAKES AVAILABLE SOFTWARE, DOCUMENTATION, INFORMATION AND/OR OTHER MATERIALS FOR OPEN SOURCE PROJECTS (COLLECTIVELY "CONTENT"). USE OF THE CONTENT IS GOVERNED BY THE TERMS AND CONDITIONS OF THIS AGREEMENT AND/OR THE TERMS AND CONDITIONS OF LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. BY USING THE CONTENT, YOU AGREE THAT YOUR USE OF THE CONTENT IS GOVERNED BY THIS AGREEMENT AND/OR THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW. IF YOU DO NOT AGREE TO THE TERMS AND CONDITIONS OF THIS AGREEMENT AND THE TERMS AND CONDITIONS OF ANY APPLICABLE LICENSE AGREEMENTS OR NOTICES INDICATED OR REFERENCED BELOW, THEN YOU MAY NOT USE THE CONTENT.

### Applicable Licenses

Unless otherwise indicated, all Content made available by the Eclipse Foundation is provided to you under the terms and conditions of the Eclipse Public License Version 1.0 ("EPL"). A copy of the EPL is provided with this Content and is also available at

<http://www.eclipse.org/legal/epl-v10.html>. For purposes of the EPL, "Program" will mean the Content.

Content includes, but is not limited to, source code, object code, documentation and other files maintained in the Eclipse.org CVS repository ("Repository") in CVS modules ("Modules") and made available as downloadable archives ("Downloads").

- Content may be structured and packaged into modules to facilitate delivering, extending, and upgrading the Content. Typical modules may include plug-ins ("Plug-ins"), plug-in fragments ("Fragments"), and features ("Features").
- Each Plug-in or Fragment may be packaged as a sub-directory or JAR (Java™ Archive) in a directory named "plugins".
- A Feature is a bundle of one or more Plug-ins and/or Fragments and associated material. Each Feature may be packaged as a sub-directory in a directory named "features". Within a Feature, files named "feature.xml" may contain a list of the names and version numbers of the Plug-ins and/or Fragments associated with that Feature.
- Features may also include other Features ("Included Features"). Within a Feature, files named "feature.xml" may contain a list of the names and version numbers of Included Features.

The terms and conditions governing Plug-ins and Fragments should be contained in files named "about.html" ("Abouts"). The terms and conditions governing Features and Included Features should be contained in files named "license.html" ("Feature Licenses"). Abouts and Feature Licenses may be located in any directory of a Download or Module including, but not limited to the following locations:

- \* The top-level (root) directory
- \* Plug-in and Fragment directories
- \* Inside Plug-ins and Fragments packaged as JARs
- \* Sub-directories of the directory named "src" of certain Plug-ins
- \* Feature directories

**Note:** If a Feature made available by the Eclipse Foundation is installed using the Eclipse Update Manager, you must agree to a license ("Feature Update License") during the installation process. If the Feature contains Included Features, the Feature Update License should either provide you with the terms and conditions governing the Included Features or inform you where you can locate them. Feature Update Licenses may be found in the "license" property of files named "feature.properties" found within a

Feature. Such Abouts, Feature Licenses, and Feature Update Licenses contain the terms and conditions (or references to such terms and conditions) that govern your use of the associated Content in that directory.

THE ABOUTS, FEATURE LICENSES, AND FEATURE UPDATE LICENSES MAY REFER TO THE EPL OR OTHER LICENSE AGREEMENTS, NOTICES OR TERMS AND CONDITIONS. SOME OF THESE OTHER LICENSE AGREEMENTS MAY INCLUDE (BUT ARE NOT LIMITED TO):

- Common Public License Version 1.0  
(available at <http://www.eclipse.org/legal/cpl-v10.html>)
- Apache Software License 1.1  
(available at <http://www.apache.org/licenses/LICENSE>)
- Apache Software License 2.0  
(available at <http://www.apache.org/licenses/LICENSE-2.0>)
- IBM Public License 1.0  
(available at <http://oss.software.ibm.com/developerworks/opensource/license10.html>)
- Metro Link Public License 1.00  
(available at <http://www.opengroup.org/openmotif/supporters/metrolink/license.html>)
- Mozilla Public License Version 1.1  
(available at <http://www.mozilla.org/MPL/MPL-1.1.html>)

IT IS YOUR OBLIGATION TO READ AND ACCEPT ALL SUCH TERMS AND CONDITIONS PRIOR TO USE OF THE CONTENT. If no About, Feature License, or Feature Update License is provided, please contact the Eclipse Foundation to determine what terms and conditions govern that particular Content.

## Cryptography

Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software, please check the country's laws, regulations and policies concerning the import, possession, or use, and re-export of encryption software, to see if this is permitted.

Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both.

## Eclipse Modules

### **org.eclipse.ant**

Copyright 1999-2008 The Apache Software Foundation.

Copyright (c) 2000, 2008 IBM Corporation and others.

### **org.eclipse.birt**

Copyright (c) 2004 Actuate Corporation.

### **org.eclipse.core**

Copyright (c) 2005, 2008 IBM Corporation and others.

### **org.eclipse.datatools**

Copyright (c) 2001, 2004 IBM Corporation and others.

### **org.eclipse.emf**

Copyright (c) 2002, 2007 IBM Corporation and others.

### **org.eclipse.help**

Copyright (c) 2006, 2007 IBM Corporation and others.

Copyright (c) 2000, 2005 IBM Corporation and others.

### **org.eclipse.jface**

Copyright (c) 2006 IBM Corporation and others.

### **org.eclipse.osgi**

Copyright (c) 2003, 2008 IBM Corporation and others.

### **org.eclipse.rcp**

Copyright (c) 2003, 2005 IBM Corporation and others.

### **org.eclipse.swt**

Copyright (c) 2000, 2008 IBM Corporation and others.

### **org.eclipse.text**

Copyright (c) 2000, 2006 IBM Corporation and others.



**org.eclipse.tomcat**

Copyright (c) 2000, 2006 IBM Corporation and others.

**org.eclipse.ui**

Copyright (c) 2000, 2007 IBM Corporation and others.

**org.eclipse.update**

Copyright (c) 2000, 2006 IBM Corporation and others.

**AspectJ**

Copyright (c) 1999-2001 Xerox Corporation, 2002 Palo Alto Research Center, Incorporated (PARC).

**Equinox**

Copyright (c) 1997-2007 by ProSyst Software GmbH.

Copyright (c) 2006, 2008 IBM Corporation and others.

## Appendix B: Eclipse License