



BEAGuardian™ 1.1

Release Notes

Version 1.1
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What's New in Guardian 1.1

The following sections describe new and changed functionality in Guardian 1.1. Topics include:

- [New Data Collectors](#)
- [Import/Export Workspace](#)
- [Signature Annotations](#)
- [Snapshot Evaluations](#)
- [Compare Inventories or Evaluations](#)
- [Export Inventories and Evaluations as PDF or HTML,](#)
- [Domain Groups](#)
- [Improved Agent Performance in Large Domains](#)
- [Validate and Test Proxy Configuration from Preference Page](#)
- [Customize Report Displays](#)
- [Improved Error Reporting and Logging](#)
- [Release Localized Versions as Language Packs](#)

The following sections provide a description of each of these new features.

New Data Collectors

The scope of Guardian 1.1 is greatly extended by the addition of the following new Data Collectors:

- [J2EE Deployment Descriptors Collector](#)
- [JRockit Runtime Analyzer Collector](#)
- [JRockit Collector](#)
- [JRockit Thread Dump Collector](#)

A description of each is provided in the following sections.

J2EE Deployment Descriptors Collector

The J2EE Deployment Descriptors Collector gathers the J2EE deployment descriptors from the WebLogic instances. Deployment descriptors contain information that informs the Application Server about elements contained within a deployment, and what server resources a deployment relies upon. This greatly extends the scope of Guardian, as signatures can now be designed to focus on the configuration of your specific managed application. This is in addition to the server resources of which Guardian is already aware.

JRockit Runtime Analyzer Collector

The JRockit Runtime Analyzer (JRA) Collector initiates a JRA recording in each of the servers in the target domain under evaluation, and returns the results for signature evaluation. See the JRockit Runtime Analyzer documentation for more information.

JRockit Collector

The JRockit Collector gathers data from each of the servers in the target domain using the JRockit Management API, and returns the results for signature evaluation. For more information, see the BEA JRockit JMAPI documentation.

JRockit Thread Dump Collector

The JRockit Thread Dump Collector takes a thread dump from each of the servers in the target domain using the JRockit Management API and returns the results for signature evaluation.

Import/Export Workspace

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

Note: 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.

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. 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.

Note: Signatures with annotations set to **Ignore** with a filter of **Hide** are not displayed in signature lists, but are still counted as detected signatures. You can include them again in displays by changing the filter setting for Annotation Type **Ignore** to **Show**.

Snapshot Evaluations

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.

There are several types of Snapshot Evaluations. These are as follows:

- **Snapshot - All** — Includes all available configuration and runtime data from all of the servers in the target domain. This snapshot may take longer in large domains.
- **Snapshot - JDBC** — Includes all JDBC-related data from all of the servers in the target domain.
- **Snapshot - JMS** — Includes all JMS-related MBean data from all of the servers in the target domain.
- **Snapshot - Security** — Includes all security-related MBean data from all of the servers in the target domain.

Compare Inventories or Evaluations

You can now 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.

Export Inventories and Evaluations as PDF or HTML,

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

To export a report, open the **Domain Explorer** and then open the **History** folder containing the report you want to save. Open the report and then select **File > Save As**. Browse to the location to save the file, select the file type (PDF or HTML), and click **OK**.

Domain Groups

You can now organize the domains in Guardian into Domain Groups for easier management. You can create a Domain Group in the **Domain Explorer**, by right-clicking on **Target Domains** and selecting **Add Domain Group** from the context menu. This opens the **Add Domain Group** dialog box for creating the new Domain Group. A domain node folder for the Domain Group is added to the **Domain Explorer** Domain Tree. You can then populate the Domain Group by simply dragging and dropping domains into the Domain Group folder.

Improved Agent Performance in Large Domains

To improve performance in large domains, multiple Agent threads have been implemented in Guardian 1.1.

When Guardian requests data from a target domain, the Guardian Agent on the WebLogic Administration Server collects the requested data from each of the Managed Servers. In Guardian 1.0, this happens serially; that is, the Agent requests the data from each Managed Server and waits for the response before requesting the data from the next Managed Server. This can result in slow activations and evaluations of large domains.

In Guardian 1.1, the Agent running in the Administration Server now spawns one thread per Managed Server, up to the value specified for the [Maximum Agent Threads Parameter](#), to collect evaluation data. Each of these threads runs no longer than the value specified for [Agent Thread Timeout Parameter](#).

Details about these parameters are provided in the following sections.

Maximum Agent Threads Parameter

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**.
- If the domain is already activated, you can set the **Max. Agent Threads** parameter in the **Domain Properties** dialog box.

Agent Thread Timeout Parameter

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** seconds.

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**.
- If the domain is already activated, you can set the **Agent Thread Timeout** parameter in the **Domain Properties** dialog box.

Validate and Test Proxy Configuration from Preference Page

If you are using an outbound proxy server for communications between Guardian and the outside world, you can now test and validate the outbound proxy connection. This simplifies proxy troubleshooting, and enhances supportability.

To test an outbound proxy server connection, select **Window > Preferences** from the Guardian titlebar menu to go to the **Preferences** configuration page. Then, open the **Guardian** folder and select **BEA Support**. Select the **Requires Proxy** checkbox and click **Test Proxy** to initiate the test. After the test completes, a status message is displayed at the top of the page as to whether it was successful or not.

Customize Report Displays

You can now select the Theme to be used for Report displays.

To select a Report Theme, do the following:

1. Select **Window > Preferences** to open the **Preferences** configuration page.
2. Open the **General** folder and select **Appearance**.
You do not need to open the **Appearance** folder.
3. For **Current Theme**, select a **Theme** from the drop down menu.
4. Click **OK**.

Improved Error Reporting and Logging

Guardian logging and debugging now employs aspect-oriented techniques, which allow you to dynamically enable and disable different levels and scopes of debugging. You can configure these parameters in the **Logging and Debug** section of the **Preferences** configuration page.

The following section provides instructions for configuring your **Logging and Debug** preferences.

Configuring Logging and Debug Preferences

To configure these preferences, do the following:

1. Select **Window > Preferences** to open the **Preferences** configuration page.
2. In the Preferences tree, open the Guardian folder and select **Logging and Debug**.

This displays the **Logging and Debug** preferences pane. The preferences are organized into four sections:

- **Logging and Exceptions**
- **Scenario Tracing**
- **Pinpoint Tracing**
- **Server Agent Debugging**

3. Select your **Logging and Debug** preferences.
4. Click **Apply**.
5. Click **OK** to dismiss the Preferences page.

Release Localized Versions as Language Packs

Guardian 1.1 now uses Language Packs for release of localized versions. Guardian is currently in the process of being localized, and Language Packs will be available soon.

Known and Resolved Issues in Guardian 1.1

This chapter describes known problems in Guardian 1.1 as well as issues found in earlier versions that are now resolved in version 1.1. Entries include a description of the problem, and a workaround or solution where appropriate.

- [Known Issues](#)
- [Changes and Resolved Issues for Guardian 1.1](#)
- [Special Notes](#)
 - [Upgrading from Guardian 1.0.x to Guardian 1.1](#)
 - [Preserving Credentials When Using Guardian Headless Mode](#)

For instructions on installing Guardian 1.1, see the *Guardian 1.1 Installation Guide*.

For additional information about the new features and capabilities of Guardian 1.1, see [“What’s New in Guardian 1.1”](#) on page 1.

Known Issues

The following table describes issues in Guardian 1.1. Entries include a description of the issue, and a workaround or solution where appropriate.

Table 2-1 Known Issues in Guardian 1.1

Tracking Number	Description and Workaround
CR329398	Agent returns resources that have been removed from the domain. This is a WebLogic Server issue.
CR355781	Password is passed in clear text between client and Agent if using HTTP. Workaround: Use HTTPS if you want the password to be encrypted.
CR366182	Compare is showing differences in the inventory when JDBC resources are sorted in a different order.
CR365881	Annotations are not exported/imported with workspace.
CR363086	Right-clicking on a domain inside a Domain Group and selecting “Evaluate” from the context menu does not work.

Table 2-1 Known Issues in Guardian 1.1

Tracking Number	Description and Workaround
CR364789	Cannot create a case from a signature that has no recommended attachments.
CR365521	<p>Evaluate does not work properly when upgrading from one WebLogic Server version to another.</p> <p>Workaround: In a given workspace, if the server version is changed but the Domain Name, Admin Host Name, and Admin Port remain the same, you must deactivate the domain and then reactivate it for a successful evaluation. Do the following:</p> <ol style="list-style-type: none"> 1. Install WebLogic Server 9.2. 2. Activate and evaluate the domain. 3. Uninstall WebLogic Server 9.2 and install WebLogic Server 10 with the same Domain Name, Admin Host Name and Admin Port. 4. Deactivate the domain. 5. Reactivate the domain. 6. Rerun the evaluation, which should now succeed.

Changes and Resolved Issues for Guardian 1.1

The following table describes changes and issues that were found in earlier versions of Guardian that are resolved in Guardian 1.1.

Table 2-2 Changes and Resolved Issues for Guardian 1.1

Change Request Number	Description
CR304037	Fixed error message that displays when an operation is cancelled.
CR286954	Added feature for changing the logging level from UI.
CR316173	Internationalized bundle descriptions.
CR304767	Updated Headless command usage information to document <code>-c</code> flag for persisting credentials.
CR314072	Added version and build information to log file.

Table 2-2 Changes and Resolved Issues for Guardian 1.1

Change Request Number	Description
CR282932	Fixed issue caused by deleting <code>guardian.dat</code> file from the configuration directory.
CR300460	Reduced the number of the weblogic classes we repackage, cutting Guardian installer size by 14% from 1.0.7 installer.
CR303636	Fixed inconsistent icon in Support Case Wizard Progress View.
CR303591	Fixed Domain Deactivation Success dialog to mention all of the domains deactivated if multiple were selected.
CR355818 CR356606 CR327502	Fixed <code>NullPointerException</code> and <code>XmlException</code> when opening some evaluations in GUI.
CR308897	Improved error messages for license issues.
CR314616	Merged BEA Support and Eclipse Install/Update proxy settings.
CR303831	Fixed error on data upload after update.
CR358410	Improved Domain Activation error messages.
CR362720	Improved error messages for activation/evaluation/inventory deployment scenarios.
CR300289	Added balloon description to Signature Explorer.
CR321532	Added feature for saving artifact as HTML or PDF.
CR351436	Added Patch ID and Passcode to remedy display.
CR329562	Suppress Mbean attributes which are clear-text passwords.
CR295478	Fixed issue with truncated text fields in Linux GUI.

Special Notes

Upgrading from Guardian 1.0.x to Guardian 1.1

If you are upgrading from Guardian 1.0.x to Guardian 1.1, there are some additional requirements to complete the upgrade procedure:

1. **Install Guardian 1.1:** You must install Guardian 1.1 in a different location than the previous Guardian 1.0.x installation. Otherwise, the Registry will not be installed properly and Guardian will not be able to start.
2. **Download and install the Upgrade Plugin:** After installing Guardian 1.1., you must then download and install the Upgrade Plug-in to complete the upgrade procedure. The Upgrade Plug-in copies a Guardian 1.0 Workspace into your current Guardian 1.1 Workspace, and updates the Guardian 1.1 Registry. To download the Upgrade Plug-in, go to the following URL:

http://dev2dev.bea.com/blog/iang/archive/2008/03/importing_your.html

Download the following file:

`com.bea.guardian.ui.importing_1.0.0.jar`

3. **Import your Guardian 1.0 Workspace into Guardian 1.1:** The final step is to start the Guardian 1.1. User Interface and use the **Import Wizard** to import your Guardian 1.0 Workspace into Guardian 1.1.

Note: For basic instructions for completing these tasks, see “Upgrade Instructions” on page 13, below. For complete instructions and additional important information, see the *BEA Guardian 1.1 Installation Guide*.

Upgrade Instructions

This section provides basic instructions for upgrading to Guardian 1.1. For complete instructions and additional important information, see the *BEA Guardian 1.1 Installation Guide*.

To upgrade from Guardian 1.0.x to Guardian 1.1:

1. Install Guardian 1.1 in a location separate from your Guardian 1.0.x installation.

Caution: If you are upgrading from Guardian 1.0.x to Guardian 1.1, do **not** accept the default installation location. Be sure to install Guardian 1.1 in a different location than the previous Guardian 1.0.x installation.

2. Download the Guardian 1.1 Upgrade Plug-in.

a. Go to the following URL:

http://dev2dev.bea.com/blog/iang/archive/2008/03/importing_your.html

b. Download the following file:

`com.bea.guardian.ui.importing_1.0.0.jar`

3. Start the Guardian 1.1 User Interface.

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

4. Click **Browse** to open a browser to select or create your Guardian 1.1 Workspace folder.

IMPORTANT: For this upgrade procedure, do **not** accept the default location. Also, make sure the Workspace is not located within the Guardian installation directory, and is in a different location than your original Guardian 1.0.x Workspace. You may also want to select the

5. Click **OK** to select the folder and return to the **Select Workspace** page.

6. (Optional) Select **Use this as the default workspace and do not ask again**.

For the purposes of this upgrade, it is recommended that you select this option until the upgrade is complete. You can change this setting at a later time by selecting **Prompt for workspace on startup** in the Guardian **Preferences** configuration page.

7. Click **Finish** to create the new Workspace and start Guardian.

8. Import your Guardian 1.0 Workspace.

a. Select **File > Import** to open the **Import** wizard.

b. In the folder tree, open the **Guardian** folder and select **Guardian 1.0 Workspace**.

c. Click **Next** to proceed to the **Select 1.0 Installation** page.

d. Click **Browse** to open a file browser and select your Guardian 1.0 installation directory.

e. Select the directory and click **OK**.

- f. Click **Next** to proceed to the **Select 1.0 Workspaces** page.
- g. Select a Workspace and click **Finish**.

Guardian proceeds to import the selected 1.0 Workspace. This may take a few seconds to complete.

9. Restart Guardian.

Restart Guardian to automatically add the domains from the imported Workspace to the **Domain Explorer** tree. Until you restart Guardian, the imported data will not be displayed in the Navigation Pane Explorers.

The installation is now complete, and you can use Guardian 1.1 to evaluate your environment.

Preserving Credentials When Using Guardian Headless Mode

You must use the `-c true` flag with Headless Mode `evaluate` commands or the credentials will be removed.

Examples:

- `Guardianheadless -g activateDomain -t http://localhost:7001 -u user -p password -c true`

The above example activates a domain and saves the credentials.

- `Guardianheadless -g evaluateDomainBundle -d domainName -c true`

The above example evaluates a domain and retains the credentials.

- `Guardianheadless -g evaluateDomainBundle -d domainName`

The above example evaluates a domain and removes the credentials.

Once the credentials are removed, you must pass them in again using the `-u` and `-p` options with the `-c true` flag set.

Known and Resolved Issues in Guardian 1.1

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