

BEAWebLogic Platform

Release Notes

Version 10.2 Document Revised: March 28, 2008

Contents

BEA WebLogic Platform Release Notes

New and Changed Features	.2
Installing WebLogic Platform	.2
Upgrading Domains and Applications	.3
Supported Configurations	.3
Switching JDKs	.3
Customer Support	.5

Known Limitations in WebLogic Platform

BEA WebLogic Platform Release Notes

WebLogic Platform 10.2 includes the following products:

- WebLogic Server 10.0 Maintenance Pack 1
- WebLogic Portal 10.2
- WebLogic Integration 10.2
- Workshop for WebLogic 10.2

This document provides the following information:

- New and Changed Features
- Installing WebLogic Platform
- Upgrading Domains and Applications
- Supported Configurations
- Supported databases and database drivers: See Supported Database Configurations.
- Switching JDKs
- Customer Support

For information about limitations in WebLogic Platform 10.2, see "Known Limitations in WebLogic Platform" on page 7.

New and Changed Features

The following table provides links to information about new and changed features, as well as known limitations in the products that are part of WebLogic Platform 10.2.

For Information About	See
WebLogic Server 10.0	 What's new: http://e-docs.bea.com/wls/docs100/notes/index.html Known limitations: http://e-docs.bea.com/wls/docs100/issues/index.html
Workshop for WebLogic 10.2	 What's new: http://e-docs.bea.com/wlw/docs102/guide/introduction/conWhatsNew.html Known limitations: http://e-docs.bea.com/wlw/docs102/relnotes/index.html
WebLogic Portal 10.2	http://e-docs.bea.com/wlp/docs102/relnotes/index.html
WebLogic Integration 10.2	http://e-docs.bea.com/wli/docs102/relnotes/
BEA JRockit J2SE 5.0 JDK	http://e-docs.bea.com/jrockit/releases/R27/relnotes/index.html

Installing WebLogic Platform

You can install the software by using graphical mode, console mode, or silent mode. For more information, see the BEA Products Installation Guide.

You can install WebLogic Platform in the following ways:

• Distributed installation: You can install WebLogic Platform in separate systems such that the number of WebLogic Portal (WLP) and WebLogic Integration (WLI) CPUs installed in all the systems equals the number of WebLogic Platform products that you have bought.

For example, if you have bought two WebLogic Platform products – that is, two CPUs each of WLI and WLP, you can run two CPUs of WLI in one system and two CPUs of

WLP in the other system, and then run WebLogic Server (WLS) in both the systems as separate instances (see the following figure).

System 1	System 2
WLI: 2 CPUs	WLP: 2 CPUs

Note that, in this case, you cannot install two CPUs of WLS on a third system.

• Integrated installation: You can install WLI and WLP in a single system.

For example, if you have bought one WebLogic Platform product, you can run one CPU each of WLI and WLP in a single system, as shown in the following figure.

System 1	
WLI: 1 CPU WLP: 1 CPU	

Upgrading Domains and Applications

For information about upgrading WebLogic Platform domains, see the Domain Upgrade Guide.

For information about upgrading applications created in WebLogic Integration (WLI), WebLogic Portal (WLP), and Workshop, see the WLI Upgrade Guide, WLP Upgrade Guide, and Workshop Upgrade Guide, respectively.

Supported Configurations

- Supported operating systems: See List of Supported Operating System Configurations in Supported Configurations for BEA WebLogic Platform 10.2.
- Supported databases and database drivers: See Supported Database Configurations.

Switching JDKs

The following instructions are provided for users who have already installed either WebLogic Portal 10.2, Workshop for WebLogic 10.2, or WebLogic Server 10.0 and want to switch from Sun Java 2 to BEA JRockit, or vice-versa:

1. Examine the WebLogic Server start script. This script is located in the bin subdirectory of your domain's root directory and, by default, is named startWebLogic.cmd (Windows) or startWebLogic.sh (UNIX).

BEA WebLogic Platform Release Notes

- 2. Locate the settings for the following two variables:
 - JAVA_VENDOR
 - JAVA_HOME
- 3. If these variables are set within the script, change them as appropriate.

The following set JAVA_VENDOR and set JAVA_HOME commands specify the BEA JRockit J2SE 5.0 JDK, where c:\bea is the BEA home directory:

```
set JAVA_VENDOR=BEA
set JAVA_HOME=c:\bea\jrockit_150_11
```

For Sun, the equivalent commands are as follows:

```
set JAVA_VENDOR=Sun
set JAVA_HOME=c:\bea\jdk150_11
```

4. If the JAVA_VENDOR variable is not set in the WebLogic Server start script, then you need to set the default JDK in the setDomainEnv.cmd (Windows) or setDomainEnv.sh (UNIX) script as described in this step. The setDomainEnv script is also located in the bin subdirectory of the domain's root directory.

The following two code snippets show the switching of the default JDK from Sun Java 2 JDK 5.0 to BEA JRockit J2SE 5.0 (R27.0) JDK in commEnv.cmd on Windows. In these snippets, the BEA home directory is c:\bea.

The first code snippet shows the initial settings that establish Sun Java 2 JDK 5.0 as the default:

```
if "%JAVA_VENDOR%"=="BEA" (
    set JAVA_HOME=C:\bea\jrockit_150_11
) else (
    if "%JAVA_VENDOR%"=="Sun" (
        set JAVA_HOME=C:\bea\jdk150_11
    ) else (
        set JAVA_VENDOR=Sun
        set JAVA_HOME=C:\bea\jdk150_11 )
)
```

```
)
```

The second code snippet shows the changes, **in bold**, made to switch to JRockit as the default:

```
if "%JAVA_VENDOR%"=="BEA" (
        set JAVA_HOME=C:\bea\jrockit_150_11
) else (
        if "%JAVA_VENDOR%"=="Sun" (
            set JAVA_HOME=C:\bea\jdk150_11
        ) else (
```

```
set JAVA_VENDOR=BEA
set JAVA_HOME=C:\bea\jrockit_150_11
```

For more information about BEA support for BEA JRockit and the Sun Java 2 JDK, see Supported Configurations for WebLogic Server, WebLogic Portal, and Workshop for WebLogic Platform - Version 10.2.

Customer Support

If you have any questions about this version of WebLogic Platform 10.2, or if you have problems installing and running the product, contact BEA Customer Support through BEA eSupport at:

http://support.bea.com

You can also contact Customer Support by using the contact information provided on the BEA Customer Support card, which is included in the product package.

When contacting Customer Support, be prepared to provide the following information:

- Your name, e-mail address, phone number, and fax number
- Your company name and company address
- Your machine type and authorization codes
- The name and version of the product you are using
- A description of the problem and the content of pertinent error messages

BEA WebLogic Platform Release Notes

6

Known Limitations in WebLogic Platform

This section lists the limitations that have been identified in the WebLogic Platform 10.2. Wherever possible, workarounds are provided.

For each problem described, a tracking number is specified. These numbers enable BEA and users to monitor the status of issues while solutions are being developed.

For information about limitations of BEA Smart Update, see Known Limitations in Smart Update.

Problem ID	Description
CR365516	Exception com.bea.plateng.patch.PatchInstallationException is thrown when you apply or remove patch using Smart Update or during an incremental installation to a BEA_HOME with Node Manager already running
	When Node Manager is running, the process locks the file weblogic_patch.jar. As a result, patch cannot be installed or removed successfully because it fails to update weblogic_patch.jar.
	Operating System: Windows
	Workaround: Shut down Node Manager when you perform incremental installation or invoke Smart Update from the same <i>BEA_HOME</i> .

Problem ID	Description
CR364584	Silent installer fails when installing Platform in an existing BEA_HOME containing WLS 10.0MP1, which was installed using WLS 10.0 MP1 installer
	Operating System: All
	Workaround: Install WebLogic Platform 10.2 by using one of the following methods:
	• Use the GUI mode of installation
	• Use the WebLogic Platform10.2 installer to install WLS 10.0 MP1; avoid using the WLS 10.0 MP1 installer.
CR361299	Deployment of WebLogic Portal applications fails in a WebLogic Platform 10.2 domain that is upgraded from WebLogic Platform 8.1 SP5 domain
	Operating System: All
	Workaround: On the 8.1 domain, open the domain-info.xml file from the _cfgwiz_donotdelete directory. Search for the following text:
	name='WebLogic Portal Extension'
	Remove the extra space between the words Portal and Extension and then proceed with the domain upgrade.
CR359464	You cannot rollback WebLogic Server 10.0 MP1 to the previous version using Platform uninstaller
	All products in WebLogic Platform 10.2 are based on WLS 10.0 MP1 (10.0.1). The WebLogic Platform uninstaller allows you to rollback WLS 10.0.1 to 10.0.0 when WLP 10.2, WLI 10.2, and WLW 10.2 are installed. However, you must not rollback WLS to 10.0.0 because it is not a valid product combination.
	Operating System: All
	Workaround: Uninstall WLP 10.2, WLI 10.2, and WLW 10.2 and then rollback WLS to 10.0.0.

CR361499

CR359409 com.bea.plateng.domain.ValidateException when extending ALSB cluster domain with WLI

When you create either a WLI or an ALSB domain, the wls_webservice.jar template is applied to the products. When extending the WLI domain with ALSB or ALSB domain with WLI, the Configuration Wizard applies the wls_webservice.jar template again, resulting in com.bea.plateng.domain.ValidateException.

Operating System: All

Workaround: You can either use the Configuration Wizard or use a WLST script to extend the domain.

Using Configuration Wizard

- 1. Create an ALSB cluster domain.
- 2. Launch Configuration Wizard to extend the ALSB cluster domain using templates.

For more information about extending a domain using templates, see Extending an Existing Domain.

- 3. In the **Select Extension Source** screen of Configuration Wizard, browse to *BEA_HOME*\wli_10.2\common\templates\ and select pl3n.jar.
- 4. Close the Configuration Wizard after extending the domain.
- 5. Repeat steps 2 to 4 for wli_worklist.jar and wli_jpd.jar templates (in step 3, choose wli_worklist.jar and wli_jpd.jar respectively.
- **Note:** Every time you extend the domain with a new template, you must finish the domain extension process. Domain extension does not work if you click **Previous** after extending a domain with one template and without closing the Configuration Wizard. You must use the templates pl3n.jar, wli_worklist.jar, and wli_jpd.jar in the same order.

Using WLST

Extending the domain using WLST is easier than using the Configuration Wizard. Use the script ExtendDom.py, which is attached to CR359409. To support the loadDB operation and properties, three more scripts are attached to the CR—dataSourceSetupOracle.py, dataSourceSetup.py, and propertyUtil.py. Copy these scripts to the WLST path. Follow these steps:

- 1. Edit ExtendDom.py as per your environment (lines 12-22).
- 2. Copy the other three scripts to the same folder as ExtendDom.py.
- 3. Launch WLST (\$WLSERVER_HOME/common/bin/WLST.cmd).
- 4. Run execfile('\$PATH/ExtendDom.py')
- 5. exit()

Problem ID	Description
CR359317	java.util.zip.ZipException when you install Weblogic Integration 10.2 in a directory other than BEA_HOME
	When you install WebLogic Platform, you can specify a non-default product Home for WebLogic Integration. However, WebLogic Integration does not work in this case.
	Operating System: All
	Workaround: Install WebLogic Server and WebLogic Integration together in the same <i>BEA_HOME</i> . The WebLogic Server directory must be <i>BEA_HOME/wlserver_10.0</i> and WebLogic Integration directory must be <i>BEA_HOME/wli_10.2</i> .
CR359092	FileNotFoundException when using the Previous button in the Configuration Wizard
	After creating a domain by using the Configuration Wizard, you cannot use the Previous button to go back to the Welcome screen of the wizard.
	Operating System: All
	Workaround: To create another domain, exit the Configuration Wizard and restart the wizard.
CR358861	*.jks files are not included when unpacking a WebLogic Portal domain template
	When you unpack a WebLogic Portal domain template, which was created by using the pack command or the Domain Template Builder, and unpack the template into a managed server domain, the managed server fails because *.jks files are missing.
	Operating System: All
	Workaround: Copy the *.jks files from the original domain to the new domain.
CR358553	WebLogic Portal domain created on Windows cannot be transferred to Solaris
	While creating portal domain template, pack (or Domain Template Builder) refers four different libraries to the same directory causing conflicting libraries references in the config.xml inside the resulting template.
	Operating System: Windows, Solaris
	Workaround: Use Domain Template Builder to create the portal domain template. In the "Add" or "Omit" Application screen, try to customize the path to differentiate the paths to those different libraries:
	<pre>content-management-app-lib#10.2.0@10.2.0 content-management-web-lib#10.2.0@10.2.0 webdav-app-lib#10.2.0@10.2.0 webdav-web-lib#10.2.0@10.2.0.0</pre>

Problem ID	Description		
CR358496	Installation fails when the BEA_HOME path name is long		
	The patch installation fails (java.lang.IllegalArgumentException) during the patch install process when the <i>BEA_HOME</i> path name is long.		
	The patch system uses the java Preferences class to determine the default location for the patch cache directory. It uses the absolute path for <i>BEA_HOME</i> as the basis for a node name to retrieve this data. This class has a limitation of 80 characters for node names, and therefore throws an exception when the path name is long, causing the patch installation to fail.		
	Operating System: Solaris		
	Workaround: The absolute path for the BEA_HOME directory must not exceed 70 characters		
CR286040	Using WLST to run a script that uses loadProperties fails when a property name in the file contains improper characters.		
	An error message is displayed when you use loadProperties to load a property that contains a . (period) character in the property name.		
	Operating System: All		
	Workaround: In the loadProperties file, specify the property name without using the . (period character. For example, use sbm instead of sbm.db.default as property name.		

Problem ID	Description
CR280837	On Solaris, when multiple users run Domain Provisioning tools like the Configuration Wizard, Domain Stop Server Script or WLST Off-Line Scripting, it is possible that subsequent users of the tool might encounter error messages like:
	sys-package-mgr: can't write cache file for
	'/home/wimbledon/load12/jdk150_04/lib/tools.jar'
	sys-package-mgr: can't write cache file for
	'/home/wimbledon/load12/weblogic91/server/lib/weblogic.jar'
	sys-package-mgr: can't write cache file for
	'/home/wimbledon/load12/weblogic91/server/lib/webservices.jar'
	sys-package-mgr: can't write cache file for
	'/home/wimbledon/load12/jdk150_04/jre/lib/rt.jar'
	sys-package-mgr: can't write cache file for
	'/home/wimbledon/load12/jdk150_04/jre/lib/jsse.jar'
	This message appears because WLST creates a temporary directory (for example, on Solaris it is /var/tmp/wlstTemp) that gets shared by all users and it is unable to differentiate between users.

/var/tmp/wlstTemp) that gets shared by all users and it is unable to differentiate between users. As a result, access to the directory gets blocked when the user accessing the directory is not the one who originally created the directory.

Workaround: Manually adjust directory permissions.

CR271218 Unknown Publisher Security Alert

On the Windows platform, an Unknown Publisher security alert may be encountered when launching a downloaded 9.2 installer, even though BEA's digital signature is present and correctly registered.

This is a known Microsoft Windows problem with very large digitally-signed files. BEA has already filed a support case with Microsoft, Case # SRX060608602617. Contact BEA Customer Support for more information.

Operating System: Windows

CR234871 Installer hangs on Windows XP during Node Manager configuration

If you choose to install Node Manager as a Windows service, which is an option available via a custom installation, the installation program may hang after you specify a listen port for Node Manager.

This problem may occur if Windows Firewall is running, and the listen port chosen for Node Manager has not been specified as a Windows Firewall exception.

Operating System: Windows XP Professional with Service Pack 2

Workaround: Before you run the installation program, do either of the following:

- Turn off Windows Firewall (recommended)
- Add the port you want to use for the Node Manager listen port as a Windows Firewall exception

If you choose to turn off Windows Firewall prior to installation, you can turn it back on after the installation procedure is complete.

CR230483 Configuration of application-scoped resources cannot be changed in domain template

If you create a template or extension template of a domain that contains application-scoped resources, and then create or extend a clustered domain on the basis of that template or extension, the Configuration Wizard may not properly retarget the application-scoped resources. If the template on which <u>a</u> clustered domain is based contains application-scoped JMS or JDBC resources, the domain may fail to start.

Operating System: All

Workaround: Note the following best practices for creating domains and templates:

- When creating a domain or extension template, include only JMS and JDBC resources that are global to the domain and that can be customized during the domain creation process; for example, JDBC data source and JMS file store settings for the domain, or cluster configuration settings.
- Rely on the application and on the application deployment process to create the required application-scoped resources in the target environment.
- If you are migrating an application from a non-clustered to a clustered domain, and the application includes packaged JMS resources for which you want to have scalability and load balancing, you can do the following:

— In place of each JMS queue in the packaged JMS module, create a uniform distributed JMS queue.

- Configure a JMS server for each Managed Server in the cluster.

— Include the connection factory and the uniform distributed queues in the same sub deployment group, and deploy them to the cluster.

When the application is deployed, each Managed Server in the cluster has a connection factory and a member for each distributed queue. For information about configuring JMS for a clustered environment, see "Configuring Clustered WebLogic JMS Resources" in *Configuring and Managing WebLogic JMS*.

• After you create or extend the domain, you may need to perform additional steps to make sure that the application and its application-scoped resources are targeted and deployed properly for a clustered environment. For more information on the targeting and deployment of application-scoped modules, see "Deploying Applications and Modules" in *Deploying Applications to WebLogic Server*.

Problem ID	Description
CR229700	QuickStart is not displayed correctly after installation
	When installing AquaLogic Service Bus or WebLogic Server, if you specify a directory for either the BEA Home directory or WebLogic Server Home directory that contains a multibyte character set in the directory name, QuickStart is not displayed correctly after the installation is complete.
	Operating System: Any system in which the Sun Java 2 J2SE 5.0 is used.
	Workaround: During installation, choose directories for BEA Home and WebLogic Server Home with names that include only the ASCII character set.
CR229655	Exception java.lang.UnsupportedOperationException thrown from domain configured using WLST offline
	When operating in offline mode, WLST does not support the creation of security roles. If a WLST offline script includes statements that define security roles, WLST terminates abnormally when executing the script, throwing the java.lang.UnsupportedOperationException exception.
	Operating System: All
	Workaround: Use WLST in online mode to specify security roles.
CR227881	Limited support in Template Builder for compatibility-mode security
0.227001	When using the Domain Template Builder to create a template from a domain that contains a Compatibility security configuration, you cannot create or assign additional users, groups, and global roles.
	Operating System: All
	Workaround: After you create a domain based on a template that contains a Compatibility security configuration, boot the domain and add users, groups, and roles via the WebLogic Server Administration Console.

Problem ID	Description
CR224337	Server fails to start when domain name includes a dot and the dot is preceded and followed by strings of a certain length
	If you create a domain and assign a name that has all the following characteristics, the domain will not start:
	• The name includes the period character (.).
	Two alphanumeric characters precede the period.
	• Five or more alphanumeric characters follow the dot.
	For example, a domain created with the name zq.domain will not start.
	Operating System: All
	Workaround: When choosing a domain name, do one of the following:
	• Do not use a name that contains a dot character.
	• If you use a dot character, make sure that you provide more than two characters preceding the dot.
CR224184	PointBase is not disabled after a domain is extended using two or more extension templates, and an extension template other than the first is used to change the database from PointBase to a production RDBMS
	If you extend a domain using two or more extension templates, and switch the database from PointBase to a production RDBMS when applying the second template or a subsequent one, PointBase is not disabled for the domain.
	Operating System: All
	Workaround: Two workarounds can be used to avoid this problem, as follows:
	• When extending the domain using the first extension template, specify the production RDBMS. This step ensures that subsequent extension templates do not re-enable PointBase.
	• When starting the domain, run the WebLogic Server start script specifying the nopointbase option. For example:
	UNIX:
	startWebLogic.sh nopointbase
	Windows:
	startWebLogic nopointbase

16

CR220653 WebLogic Server fails to start and displays the message that the server is not found in the WL_HOME directory

A message similar to the following is displayed when you try to start WebLogic Server:

The WebLogic Server wasn't found in directory *directory-name*. Please edit the setWLSEnv.cmd script so that the WL_HOME variable points to the WebLogic installation directory. Your environment has not been set.

This problem is caused by a Windows bug that limits the length of the directory name you can use for the BEA Home directory.

Operating System: All

Workaround: Do not choose a BEA Home directory name that contains more than 12 characters.

CR214849 Thread dump occurs when Ctrl+C is used to stop server

Using Ctrl+C to stop a WebLogic Server instance results in a thread dump in the command window from which the server was started. This problem occurs because the RDBMS configured for the domain halts before the WebLogic Server shutdown procedure is completed.

This problem can happen in either the WebLogic Server Examples domain or Avitek Medical Records domain when configured with the default PointBase RDBMS, but potentially can happen in any domain in which the RDBMS is configured to start and stop with WebLogic Server.

Operating System: Windows

Workaround: The recommended way to shut down a WebLogic Server instance is via the WebLogic Server Administration Console. For details, see "Starting and Stopping Servers" in *Managing Server Startup and Shutdown*.

Known Limitations in WebLogic Platform