
Release Notes

JBoss Enterprise Application Platform 4.3



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Abstract

These release notes contain important information related to JBoss Enterprise Application Platform 4.3 that may not be currently available in the Product Manuals. You should read these Release Notes in their entirety before installing JBoss Enterprise Application Platform 4.3.

1. Introduction	2
1.1. Overview	2
2. New Features in JBoss Enterprise Application Platform 4.3	3
2.1. JBoss Messaging	3
2.2. JBoss Web Services 2.0.1	3
3. Installation and Migration Notes	3
3.1. Installation Notes	3
3.2. Migrating from JBoss Enterprise Application Platform 4.2	3
4. Important Notes	4
4.1. Running the example Seam Applications	4
4.2. Default Security Settings	4
4.3. Embedded Hypersonic Database	4
4.4. Source Files	4
5. Product Support and License Website Links	5
6. Documentation	5
7. Issues fixed in this release	6
8. Known Issues with this release	10

1. Introduction

These release notes contain important information related to JBoss Enterprise Application Platform 4.3. New features, known problems, resources, and other current issues are addressed here.

1.1. Overview

JBoss Enterprise Application Platform is the next evolutionary step in open source enterprise software. It is a powerful tool for developing rich, high performance, Web 2.0 applications on a pure Java Platform.

JBoss Enterprise Application Platform provides complete compatibility with existing J2EE 1.4 enterprise Java applications. At the same time, almost all the key features and components defined in the Java EE 5.0 specification are supported. So your new enterprise Java applications can take immediate advantage of the Java EE 5.0's significantly simpler POJO-based programming model.

Further, by integrating best-of-breed open source frameworks such as JBoss Seam, Hibernate, Tomcat, and JBoss Cache the Platform takes advantage of innovations in the open source community. As well, JBoss Enterprise Application Platform is fully tested and supported by Red Hat, and is certified to work on many leading enterprise hardware and software products.

All of which means you can develop your new application taking advantage of Java EE 5.0 technologies immediately and with the confidence of knowing it will remain forward-compatible with future versions of the JBoss Platform.

2. New Features in JBoss Enterprise Application Platform 4.3

2.1. JBoss Messaging

In this release, JBoss MQ 1.3 has been replaced with JBoss Messaging 1.4. JBoss Messaging provides a high performance messaging infrastructure for JBoss Enterprise Application Platform.

2.2. JBoss Web Services 2.0.1

JBoss Web Services is upgraded to 2.0.1 in this release and will now provide a complete implementation of JAX-WS.

3. Installation and Migration Notes

This section contains information related to installing or upgrading to JBoss Enterprise Application Platform version 4.3, including hardware and platform requirements and prerequisites.

3.1. Installation Notes

You must have adequate disk space to install JDK and JBoss Enterprise Application Platform while also allowing enough space for your applications. You must have a working installation of JDK 1.5. For the latest information on supported Operating System / JVM combinations, supported Database platforms and current information on the revision level of included components, please refer to <http://www.redhat.com/jboss/platforms/application/>.

3.2. Migrating from JBoss Enterprise Application Platform 4.2

JBoss MQ is now replaced with JBoss Messaging as the JMS implementation shipped within JBoss Enterprise Application Platform 4.3. Since JBoss Messaging is JMS 1.1 and JMS 1.0.2b compatible, the JMS code written against JBossMQ will run with JBoss Messaging without any changes.

JBoss Messaging only runs with Java 5 or later. It does not have wire format compatibility with JBoss MQ. Even though JBoss Messaging deployment descriptors are very similar to JBoss MQ deployment descriptors, they are *not* identical. Also, the database data model is completely different, so don't attempt to use JBoss Messaging with a JBoss MQ data schema and vice-versa.

Refer to the JBoss Messaging User Guide for more information.

4. Important Notes

4.1. Running the example Seam Applications

It is recommended to run the example Seam applications that are included with the documentation using the production configuration. Using another configuration may result in memory issues. Note that the default configuration for the server to start with, if no other configuration is specified, is the production configuration.



Warning

To avoid memory issues, adjust the memory settings before deploying the applications. You can do this by updating `JAVA_OPTS` settings in the file `JBOSS_DIST/jboss-as/server/production/run.conf` with these recommended values:

```
-Xms1303m -Xmx1303m -XX:PermSize=256m -XX:MaxPermSize=256m
```

Refer to the "Seam Reference Guide" included in the documentation set (`JBOSS_DIST/doc/seam/Seam_Reference_Guide.pdf`) for important information regarding the deployment of Seam examples and detailed information on developing applications using Seam.

4.2. Default Security Settings

If you are using the rpm, or the zip distribution, please note that by default, authentication is enabled and no user accounts are set up. This is done to prevent unauthorized access to various services of JBoss AS. Please refer to the Installation Guide, or see http://kbase.redhat.com/faq/FAQ_107_9963.shtml for information on how to make the services accessible again.

4.3. Embedded Hypersonic Database

Hypersonic SQL provides default "out of the box" database functionality for evaluation and development use only. It is NOT recommended or supported as a production-use database. Technical support is not available for this component, and while we are happy to accept bugs filed against this component, we do not make any commitment to fix them within a specific timeframe.

4.4. Source Files

SRPMs.

- <ftp://ftp.redhat.com/pub/redhat/linux/updates/enterprise/4AS/en/JBEAP/SRPMS>
- <ftp://ftp.redhat.com/pub/redhat/linux/updates/enterprise/4ES/en/JBEAP/SRPMS>
- <ftp://ftp.redhat.com/pub/redhat/linux/enterprise/5Server/en/JBEAP/SRPMS>

Source ZIP.

- <ftp://ftp.redhat.com/pub/redhat/jbeap/4.3.0/en/source/jboss-eap-src-4.3.0.zip>
[<ftp://ftp.redhat.com/pub/redhat/jbeap/4.3.0/en/source/jboss-eap-src-4.3.0.zip>]

5. Product Support and License Website Links

Support Processes.

<http://www.redhat.com/support/process/>

Production Support Scope of Coverage .

<http://www.redhat.com/support/policy/soc/production>

Production Support Service Level Agreement .

<http://www.redhat.com/support/policy/sla/production/>

Developer Support Scope of Coverage .

<http://www.redhat.com/support/policy/soc/developer/>

Developer Support Service Level Agreement .

<http://www.redhat.com/support/policy/sla/developer/>

Product Update and Support Policy by Product .

http://www.redhat.com/security/updates/jboss_notes/

JBoss End User License Agreement .

http://www.redhat.com/licenses/jboss_eula.html

6. Documentation

Refer to the index.html file in the documentation directory for a list of included documentation.

In the zip distribution, documentation for the Platform and its individual components is

distributed in a separate zip file, `jboss-eap-docs-<version>.zip`.

On a Linux system, the documentation is found in two rpms that will need to be installed manually. These rpms are `jboss-seam-docs-<version>.noarch.rpm`, and `rh-eap-docs-<version>.noarch.rpm`. For help with installing rpm packages on Red Hat Enterprise Linux, please refer to the Red Hat Knowledge base article located at http://kbase.redhat.com/faq/FAQ_35_198.shtm

- `Installation Guide` explains how to install and verify the installation of JBoss Enterprise Application Platform using different installation modes.
- `Getting Started` details the directory structure of the platform and a quick tour of the Application Server and different configuration sets and services. Using a simple web application it illustrates the use of JSF-EJB3 components and how to use Seam to integrate the JSF and EJB3 components.
- `Server Configuration Guide` explains all administrative and configuration functions in detail.

Updated versions of the documentation with errata and additional information, example application code, as well as the most recent version of the release notes may be accessed via the web from <http://www.redhat.com/docs/manuals/jboss>.

7. Issues fixed in this release

Following is a list of issues fixed in this release:

JBoss Messaging.

[JBPAPP-367](http://jira.jboss.com/jira/browse/JBPAPP-367) [<http://jira.jboss.com/jira/browse/JBPAPP-367>] & [JBPAPP-503](http://jira.jboss.com/jira/browse/JBPAPP-503) [<http://jira.jboss.com/jira/browse/JBPAPP-503>]: In this release JBoss Messaging 1.4.0.SP3 is used as the Java Message Service (JMS) provider instead of JBoss MQ.

JAX-WS implementation.

[JBPAPP-238](http://jira.jboss.com/jira/browse/JBPAPP-238) [<http://jira.jboss.com/jira/browse/JBPAPP-238>]: JBoss Web Services is upgraded to 2.0.1 in this release and will now provide a complete implementation of JAX-WS.

JBoss Cache.

[JBPAPP-441](http://jira.jboss.com/jira/browse/JBPAPP-441) [<http://jira.jboss.com/jira/browse/JBPAPP-441>]: JBoss Cache has been upgraded to version 1.4.1.SP7, which includes the following fixes:

- [JBPAPP-310](http://jira.jboss.com/jira/browse/JBPAPP-310) [<http://jira.jboss.com/jira/browse/JBPAPP-310>]: JBossCache does not handle `STATUS_UNKNOWN` transaction outcomes, which can leave resources locked.

- [JBPAPP-306](http://jira.jboss.com/jira/browse/JBPAPP-306) [http://jira.jboss.com/jira/browse/JBPAPP-306]: Memory Leak in the `PojoCache` undo list.
- [JBPAPP-305](http://jira.jboss.com/jira/browse/JBPAPP-305) [http://jira.jboss.com/jira/browse/JBPAPP-305]: BuddyReplication with `autoDataGravitationEnabled=false` does not work correctly if a `CacheLoader` is configured.
- [JBPAPP-454](http://jira.jboss.com/jira/browse/JBPAPP-454) [http://jira.jboss.com/jira/browse/JBPAPP-454]: `TreeCache._enqueueMethodCall` doesn't handle buddy backup FQNs.
- [JBPAPP-438](http://jira.jboss.com/jira/browse/JBPAPP-438) [http://jira.jboss.com/jira/browse/JBPAPP-438]: `DataGravitationInterceptor` logs ERROR when alone in cluster.
- [JBPAPP-371](http://jira.jboss.com/jira/browse/JBPAPP-371) [http://jira.jboss.com/jira/browse/JBPAPP-371]: Web session data gravitation can fail when backup node is slow to respond.

JBoss Remoting.

[JBPAPP-353](http://jira.jboss.com/jira/browse/JBPAPP-353) [http://jira.jboss.com/jira/browse/JBPAPP-353]: Remoting has been upgraded to version 2.2.2.SP4 from 2.2.2.GA, which includes the following fixes:

- [JBPAPP-374](http://jira.jboss.com/jira/browse/JBPAPP-374) [http://jira.jboss.com/jira/browse/JBPAPP-374]: `ServletServerInvoker` returns an error message instead of an entire serialized exception, which differs from the default behavior of other Server Invokers.
- [JBPAPP-402](http://jira.jboss.com/jira/browse/JBPAPP-402) [http://jira.jboss.com/jira/browse/JBPAPP-402]: Under certain conditions in JBoss Remoting an infinite loop can occur which causes `createQueueConnection` to hang.

JBoss Web.

- [JBPAPP-497](http://jira.jboss.com/jira/browse/JBPAPP-497) [http://jira.jboss.com/jira/browse/JBPAPP-497]: JBossWeb upgraded to 2.0.0.GA_CP05.
- [JBPAPP-423](http://jira.jboss.com/jira/browse/JBPAPP-423) [http://jira.jboss.com/jira/browse/JBPAPP-423]: There is an error logged for each request which comes through AJP connector.

JBoss Seam.

- [JBPAPP-494](http://jira.jboss.com/jira/browse/JBPAPP-494) [http://jira.jboss.com/jira/browse/JBPAPP-494]: JBoss Seam remoting issue with Seam 1.2.1.AP. When running the Seam chat room example an exception is thrown by the remoting poller code - "No application context active".
- [JBPAPP-475](http://jira.jboss.com/jira/browse/JBPAPP-475) [http://jira.jboss.com/jira/browse/JBPAPP-475]: Seam chatroom example - JMS related errors.

JBPAPP-253.

[JBPAPP-253](http://jira.jboss.com/jira/browse/JBPAPP-253) [http://jira.jboss.com/jira/browse/JBPAPP-253]: A bug in `run.sh` prevents the platform from starting up if `-c` command line arguments is 10 or more arguments down in the list.

JBPAPP-254.

[JBPAPP-254](http://jira.jboss.com/jira/browse/JBPAPP-254) [http://jira.jboss.com/jira/browse/JBPAPP-254]: In the Clustered Console's `web.xml` file, the system property used to describe the multicast port for HA cluster partition is wrong.

JBPAPP-482.

[JBPAPP-482](http://jira.jboss.com/jira/browse/JBPAPP-482) [http://jira.jboss.com/jira/browse/JBPAPP-482]: Logging for `com.arjuna` and `org.hibernate` should be set to INFO and not DEBUG for production configuration.

JBPAPP-456.

[JBPAPP-456](http://jira.jboss.com/jira/browse/JBPAPP-456) [http://jira.jboss.com/jira/browse/JBPAPP-456]: JMS server failover with tibco ems.

JBPAPP-444.

[JBPAPP-444](http://jira.jboss.com/jira/browse/JBPAPP-444) [http://jira.jboss.com/jira/browse/JBPAPP-444]: "`bind_to_all`" attribute set to true for MPING protocol of messaging data channel JGroups stack configuration.

JBPAPP-419.

[JBPAPP-419](http://jira.jboss.com/jira/browse/JBPAPP-419) [http://jira.jboss.com/jira/browse/JBPAPP-419]: Leak in `org.jboss.mx.loading.UnifiedClassLoader3` JMX Notifications.

JBPAPP-410.

[JBPAPP-410](http://jira.jboss.com/jira/browse/JBPAPP-410) [http://jira.jboss.com/jira/browse/JBPAPP-410]: Transaction failover authorisation is broken within `UnifiedInvokerHAProxy`.

JBPAPP-394.

[JBPAPP-394](http://jira.jboss.com/jira/browse/JBPAPP-394) [http://jira.jboss.com/jira/browse/JBPAPP-394]: `JBossCacheWrapper` should not re-use data gravitation option.

JBPAPP-393.

[JBPAPP-393](http://jira.jboss.com/jira/browse/JBPAPP-393) [http://jira.jboss.com/jira/browse/JBPAPP-393]: EAP 4.3 is not discovered by JON 1.4.31 (SP2).

JBPAPP-392.

[JBPAPP-392](http://jira.jboss.com/jira/browse/JBPAPP-392) [http://jira.jboss.com/jira/browse/JBPAPP-392]: `ConsumerContainer` throws `NoInitialContextException` on stop.

JBPAPP-379.

[JBPAPP-379](http://jira.jboss.com/jira/browse/JBPAPP-379) [http://jira.jboss.com/jira/browse/JBPAPP-379]: HTTP session replication failover failures with async buddy replication.

JBPAPP-361.

[JBPAPP-361](http://jira.jboss.com/jira/browse/JBPAPP-361) [http://jira.jboss.com/jira/browse/JBPAPP-361]: WebService ignores `java.rmi.server.codebase` system property.

JBPAPP-360.

[JBPAPP-360](http://jira.jboss.com/jira/browse/JBPAPP-360) [http://jira.jboss.com/jira/browse/JBPAPP-360]: Re-enable JGroups message bundling.

JBPAPP-359.

[JBPAPP-359](http://jira.jboss.com/jira/browse/JBPAPP-359) [http://jira.jboss.com/jira/browse/JBPAPP-359]: Upgrade to JGroups 2.4.1.SP4.

JBPAPP-349.

[JBPAPP-349](http://jira.jboss.com/jira/browse/JBPAPP-349) [http://jira.jboss.com/jira/browse/JBPAPP-349]: Create a generic way to createDestinations on MDB Container.

JBPAPP-341.

[JBPAPP-341](http://jira.jboss.com/jira/browse/JBPAPP-341) [http://jira.jboss.com/jira/browse/JBPAPP-341]: Include the CS1v2-patched JacORB.

JBPAPP-334.

[JBPAPP-334](http://jira.jboss.com/jira/browse/JBPAPP-334) [http://jira.jboss.com/jira/browse/JBPAPP-334]: JBossCommon upgraded to version 1.2.1.GA.

JBPAPP-329.

[JBPAPP-329](http://jira.jboss.com/jira/browse/JBPAPP-329) [http://jira.jboss.com/jira/browse/JBPAPP-329]: Upgrade version of HSQLDB used to match community version.

JBPAPP-303.

[JBPAPP-303](http://jira.jboss.com/jira/browse/JBPAPP-303) [http://jira.jboss.com/jira/browse/JBPAPP-303]: Preload commons logging in web container to avoid container/application interactions.

JBPAPP-263.

[JBPAPP-263](http://jira.jboss.com/jira/browse/JBPAPP-263) [http://jira.jboss.com/jira/browse/JBPAPP-263]: EJBTHREE-942 support RemoteBindings annotations from `ejb3-interceptors-aop.xml`.

JBPAPP-262.

[JBPAPP-262](http://jira.jboss.com/jira/browse/JBPAPP-262) [http://jira.jboss.com/jira/browse/JBPAPP-262]: If the installation path contains space(s), JPA fails.

JBPAPP-261.

[JBPAPP-261](http://jira.jboss.com/jira/browse/JBPAPP-261) [http://jira.jboss.com/jira/browse/JBPAPP-261]: EJBTHREE-1022 - system properties replacement for sub-values.

JBPAPP-260.

[JBPAPP-260](http://jira.jboss.com/jira/browse/JBPAPP-260) [http://jira.jboss.com/jira/browse/JBPAPP-260]: EJBTHREE-975 - HA-JNDI InitialContext for @Resource annotation.

JBPAPP-259.

[JBPAPP-259](http://jira.jboss.com/jira/browse/JBPAPP-259) [http://jira.jboss.com/jira/browse/JBPAPP-259]: EJBTHREE-997 - implement and create test for security-role-ref.

JBPAPP-258.

[JBPAPP-258](http://jira.jboss.com/jira/browse/JBPAPP-258) [http://jira.jboss.com/jira/browse/JBPAPP-258]: Hibernate annotations - Guaranty the same parameter ordering when overriding SQL across VMs and compilations.

8. Known Issues with this release

Following is a list of known issues at the time of release. Further details on these issues can be found in [JIRA](#)

[<http://jira.jboss.com/jira/secure/IssueNavigator.jspa?mode=hide&requestId=12311486>].

- [JPBAPP-351](http://jira.jboss.com/jira/browse/JBPAPP-351) [http://jira.jboss.com/jira/browse/JBPAPP-351]: During server shutdown, a NullPointerException occurs when using JBossAOP.