



JBoss Enterprise Web Platform 5 Release Notes 5.0 SEC01

for Use with JBoss Enterprise Web Platform 5
Edition 5.0.0.1

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Abstract

These release notes contain important information related to JBoss Enterprise Web Platform 5.0.0.GA-SEC-01 that may not be currently available in the Product Manuals. You should read these Release Notes in their entirety before installing JBoss Enterprise Web Platform 5.0.0.GA-SEC-01.

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1. Introduction

These release notes contain important information related to JBoss Enterprise Web Platform 5.0.0.SEC01. New features, known problems, resources, and other current issues are addressed here.

1.1. Overview

JBoss Enterprise Web Platform is a core component of JBoss Open Choice, Red Hat's application server product strategy to deliver targeted platforms that support the variety of common Java application workloads in today's IT enterprise. As part of JBoss Open Choice, Red Hat provides three Java application server solutions:

JBoss Enterprise Application Platform

The Enterprise Application Platform is for highly transactional applications that utilize the full Java Enterprise Edition (EE) programming approach. It leverages the market leading JBoss Application Server and adds enterprise features for clustering, caching, messaging, transactions, and a full web services stack

JBoss Enterprise Web Platform

The Enterprise Web Platform is for mid-size workloads, focusing on light and rich Java applications. Web Platform is a slimmed down profile of the JBoss Enterprise Application Platform. Web Platform builds upon the Java EE Web Profile concept to provide a lightweight version of the popular JBoss Application Server, while still providing enterprise features for clustering, caching, and simple web services.

JBoss Enterprise Web Server

The Enterprise Web Server is for simple web applications and the lightest Java workloads, JBoss Enterprise Web Server provides enterprises with a stable, long-term enterprise product support lifecycle for Apache Web Server, Apache Tomcat and all of the common connectors used in between.

JBoss Enterprise Web Platform 5.0 is a lighter and slimmer version of JBoss Enterprise Application Platform.

2. New Features in JBoss Enterprise Web Platform 5.0.0.GA-SEC-01

JBoss Enterprise Web Platform 5.0.0.GA-SEC-01 is a special release that includes a patch for CVE-2010-0738. For more information about this issue, see [Section 7, "Issues fixed in this release"](#).

2.1. JBoss AS

The JBoss AS 5.1.x family represents the state of the art, second generation Microcontainer based enterprise Java run-time and the latest release of the world's most popular application server. In addition to supporting the latest Java EE specification (Java EE 5), it integrates many of the best enterprise class services for advanced persistence, transactions, caching and high-availability.

2.2. JBoss Microcontainer

The JBoss Microcontainer is a refactoring of the modular JBoss JMX Microkernel. It is a lightweight kernel that manages the loading, lifecycle and dependencies between POJOs. Used to integrate enterprise services, the JBoss Microcontainer together with Servlet/JSP container, EJB container, deployers and management utilities, provides a standard Java EE 5 profile.

2.3. JBoss Cache

JBoss Cache is used to replicate EJB and HTTP session state and supports distributed entity caching for JPA, while continuing to push the performance and scalability envelope with a new and more efficient locking scheme (MVCC – MultiVersion Concurrency Control).

2.4. JBoss Web Services

JBoss Web Services is a framework that supports the latest JAX-WS specification and a pluggable architecture to provide choice of Web Services Stack.

2.5. The Native Package

The Native package is an optional component for the JBoss Enterprise Web Platform and incorporates JBoss Native and the mod_jk technologies. These technologies are described as follows:

- » JBoss Native consists of the Apache Portable Runtime (APR), OpenSSL and Tomcat Native (TC-native).
 - Apache Portable Runtime (APR): provides superior scalability, performance, and improved integration with native server technologies. The Apache Portable Runtime is a highly portable library that is at the heart of Apache HTTP Server 2.x and contains many uses, including access to advanced IO functionality (for example: sendfile, epoll and OpenSSL), Operating System level functionality (for example: random number generation and system status), and native process handling (shared memory, NT pipes and Unix sockets).
 - OpenSSL: implements the Secure Sockets Layer (SSL) and Transport Layer Security (TLS) protocols and includes a basic cryptographic library.
 - Tomcat Native (TC-Native): is a Java Native Interface (JNI) that provides much of Tomcat's core functionality in native code rather than Java. This allows for an overall increase in the speed of a server.
- » mod_jk: is a connector that is used to connect the Tomcat JSP container and different web services such as Apache.



Note

The Red Hat Enterprise Linux 5 distribution of the Native package does not contain OpenSSL or the Apache Portable Runtime since these technologies are already included in the Operating System.

2.6. JBoss mod_cluster

mod_cluster is an httpd-based load balancer. Like **mod_jk**, it uses a communication channel to forward requests from httpd to an application server node.

See the mod_cluster documentation available from http://www.redhat.com/docs/en-US/JBoss_Enterprise_Web_Platform/ for installation instructions.

3. Component Versions

This section details the versions of the components which create the Enterprise Web Platform 5.0.0.GA-SEC-01.

- » JBoss Application Server 5.1.0.GA++
 - Hibernate Core 3.3.2.GA
 - Hibernate Entity Manager 3.4.0.GA
 - Hibernate Annotations 3.4.0.GA
 - Hibernate Validator 3.1.0.GA
 - JBoss Web 2.1.3.GA
 - JBoss Cache 3.2.1.GA
 - JGroups 2.6.13.GA
 - JBoss EJB3 1.1.18
 - JBoss JTA 4.6.1.GA_CP03
 - JBoss WS Native 3.1.2.SP3
 - JBoss AOP 2.1.6.GA
 - JBoss Remoting 2.5.2
 - JBoss Serialization 1.0.3.GA
 - JavaServer Faces 1.2_13
 - JBoss Negotiation 2.0.3.SP1
 - JBoss XB 2.0.1.GA

- JPA 1.0.0
- JBoss Security 2.0.4.SP1
- JBoss Managed 2.1.1.GA
- JBoss HA Server API 1.1.1.GA
- JBoss Profiler-jvmti 1.0.0.CR5
- JBoss Metadata 1.0.1.SP1
- JBoss Microcontainer 2.0.9.GA
- JBoss JOPR 1.3.2.GA
- mod_cluster 1.0.2.GA
- Seam 2.2.GA
- RichFaces 3.3.1.GA (in Seam)
- RESTEasy 1.1.CP01
- JBoss Native 2.0.6.GA
- mod_jk 1.2.28
- Hibernate Search 3.1.1.GA
- JBoss JOPR Console 1.3.2.GA

4. Installation Notes

4.1. Installing JBoss Enterprise Web Platform

You must have adequate disk space to install JDK and JBoss Enterprise Web Platform while also allowing enough space for your applications. You must have a working installation of JDK 1.6. For the latest information on supported Operating System / JVM combinations, supported Database platforms and current information on the revision level of included components, refer to the installation guide available online from http://www.redhat.com/docs/en-US/JBoss_Enterprise_Web_Platform/. The installation guide also details instructions to install and verify the installation of the JBoss Enterprise Web Platform.

4.2. Default Startup Profile

The JBoss Enterprise Web Platform ships with two server profiles. The default startup profile is **default**.

The **default** profile is not intended for production use or for the running of load, stress, availability or performance tests. It is the most commonly used profile for application developers. It supports the standard Java EE 5.0 programming APIs (for example, Annotations, JPA, and EJB3). It does not include the JAXR service, the IIOP service, or any of the clustering services.

The **production** profile has the features of the **default** profile with additional clustering support and enterprise extensions. It is optimized for production environments.

You can choose which configuration to start by passing the **-c** parameter to the server startup script. See the *Administration and Configuration Guide* for further information.

4.3. Source Files

Source ZIP

- <ftp://ftp.redhat.com/pub/redhat/jbewp/5.0.0/en/source/jboss-ewp-src-5.0.0.GA-SEC-01.zip>

5. Product Support

Bugs, potential bugs, and development issues and/or questions should be filed as JBoss support cases via the JBoss Customer Support Portal.

6. Documentation

In this release, all API documents, code examples and a link to the online release notes are included with the distribution. All other guides and documentation are available online at http://www.redhat.com/docs/en-US/JBoss_Enterprise_Web_Platform/.

In the ZIP, the included distribution for the Platform and its individual components can be found in a separate ZIP file, **jboss-ewp-docs-5.0.0.zip**.

Amongst the online documentation you will find the following important guides:

- » *Installation Guide* explains how to install and verify the installation of JBoss Enterprise Web 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.
- » *Administration and Configuration Guide* explains all administrative and server configuration functions in detail.

The online documentation will be updated as necessary so be sure to check back, especially when a new version of the JBoss Enterprise Web Platform is released.

7. Issues fixed in this release

Following is a list of issues fixed in this release:

Security

- » [JBPAPP-3952](#): A security issue in the JMX Console configuration has been identified that allows an attacker to bypass security authentication.

The JMX Console configuration only specified an authentication requirement for requests that used the GET and POST HTTP "verbs". An attacker could create a HTTP request that did not specify GET or POST and it would be executed by the default GET handler without authentication. This release contains a JMX Console with an updated configuration that no longer specifies the HTTP verbs. This means that the authentication requirement is applied to all requests.

For additional information on this vulnerability refer to: <http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2010-0738>

All users are advised to upgrade to this release to resolve this issue.

If an immediate upgrade is not possible or the server deployment has been customized then the fix can be applied by editing the deployment descriptor (**WEB-INF/web.xml**) of the JMX Console WAR. Details of how to apply this fix can be found at <http://kbase.redhat.com/faq/docs/DOC-30741>. Contact Red Hat JBoss Support for advice before making these changes.

Red Hat would like to thank Stefano di Paola and Giorgio Fedon of Minded Security for responsibly reporting the CVE-2010-0738 issue.

8. Known Issues with this release

Following is a list of known issues at the time of release.

General Known Issues

- » [JBPAPP-3673](#): The current JBoss Operations Network (version 2.3) has several known issues when used with JBoss Enterprise Web Platform. JBoss ON support for Enterprise Web Platform is planned for a future release of JBoss ON.
- » [JBPAPP-3036](#): The **jboss_init_hpux** script does not pick up environment variables when executed in the GNU bash shell. This is related to JBPAPP-2036: <https://jira.jboss.org/jira/browse/JBPAPP-2306>.
- » [JBPAPP-3035](#): The **-e** and **-H** arguments of the **shutdown.sh** script cannot be used to directly terminate the JVM.
- » [JBPAPP-3029](#): The **jboss_init_redhat.sh** script is used to start and stop a server instance under a given user name. When using a non-loopback bind address, calling **jboss_init_redhat.sh stop** results in a **CommunicationException** because of a missing hostname parameter for the remote server the script attempts to contact.
- » [JBPAPP-2998](#): When the server is started via a desktop icon, the machine's default Java set is used. This can cause exceptions when a Java version other than JDK 1.6 is used.
- » [JBAS-7049](#): The server manager does not function correctly when Open JDK 6 is used because a **NullPointerException** check is missing in Open JDK 6. The workaround is to comment out the `java.security.debug` statement in the **imports/server-config.xml** file.
- » [JBPAPP-2598](#): Once the workaround for the [JBAS-7049](#) issue is applied a new issue presents itself.

A server running the surity manager using Open JDK 6 still fails to start, now with an access denied error. There is no currently known workaround for this issue.

- ▶ [JBPAPP-2590](#): An issue exists in the **policy.provider** defined in `${JAVA_HOME}/jre/lib/security/java.security` when IBM JDK 6 is used. By default **org.apache.harmony.security.fortress.DefaultPolicy** is used and this should be **policy.provider=sun.security.provider.PolicyFile**. The workaround for this issue is to manually make this adjustment.
- ▶ [JBPAPP-2576](#): The MySQL JDBC driver does not currently implement XA Recovery correctly.
- ▶ [JBPAPP-2871](#): High CPU utilization and reduced performance and transaction throughput has been observed when MySQL 5.0.41 when optimized settings are in use, as described in [JBQA-2610](#). We recommend upgrading to MySQL 5.0.86 and applying optimized settings as described in [JBQA-2610](#) to reduce CPU utilization and increase performance.
- ▶ [JBPAPP-2162](#): Sun JAXB silently accepts messages with non-fatal errors where they should be rejected. The fix for [JBPAPP-2114](#) corrects this, so that badly-formed messages are rejected.
- ▶ [JBPAPP-2765](#): **LoadMgr3** logs a failure to load a class as an error even when the failure to load is expected and intentional. (Seam, for example, catches exceptions in order to disable unnecessary components if a particular class is not found.)
- ▶ [JBPAPP-2894](#): Setting the **hibernate.bytecode.provider** system property in **jpa-deployers-jboss-beans.xml** is unreliable. The workaround for this issue is to add **-Dhibernate.bytecode.provider=cglib** to **\$JAVA_OPTS** in **jboss-as/bin/run.conf**.
- ▶ [JBPAPP-2818](#): The current **main/src/bin/run.sh** does not allow users to override **\$JBASS_HOME/bin/run.conf** with a profile-specific **\$JBASS_HOME/server/\$PROFILE/run.conf**.
- ▶ [JBPAPP-2713](#): **org.jboss.test.xml.DDValidatorUnitTestCase** constantly fails and crashes the Java Virtual Machine. The workaround for this issue is to disable the JIT compiler by setting **JAVA_COMPILER=NONE** or using the command line switch **-Djava.compiler=NONE**.
- ▶ [JBAS-6966](#): The IBM distribution of JDK 6 does not support the **SSLv2Hello** protocol and generates a **ERROR [AbstractKernelController]** when used. It is currently recommended not to use this protocol.

Hibernate Known Issues

- ▶ [JBPAPP-3034](#): When batch insert statements are ordered, embedded classes are not taken into account. There are two possible workarounds for this issue. The first is to set **ORDER_INSERTS** to **FALSE** when embedded classes are used. The second option is to explicitly call **session.save()** on child objects to enforce their SQL insertion orders.
- ▶ [JBPAPP-3032](#): MySQL does not currently support millisecond and microsecond measurements when returning database values such as **TIME** and **TIMESTAMP**.
- ▶ [JBPAPP-3031](#): On Sybase, the **current_timestamp** text is not being recognized by the translator as a *method mode*. There is currently no way to work around this issue except to avoid relying upon function replacement for **current_timestamp**.
- ▶ [JBPAPP-3030](#): On Sybase, **SchemaExport** cannot be used to create stored procedures while in while in chained transaction mode. The workaround for this case is to add the following code immediately after the definition of the new stored procedure:

```
<database-object>
<create>
sp_procmode paramHandling, 'chained'
</create>
<drop/>
</database-object>
```

- ▶ [JBPAPP-2791](#): Applications that map Hibernate to use **cglib** as a byte provider fail to deploy because of a **java.lang.SecurityException**. An error message similar to the following is displayed:

```
Deployment "persistence.unit:unitName=lobtest.ear/lobtest-ejb-1.0-
SNAPSHOT.jar#lobtest-jpa-jndi" is in error due to the following reason(s):
java.lang.SecurityException: class
"com.redhat.gss.lobtest.jpa.Item$$EnhancerByCGLIB$$defd1a7f"'s signer
information does not match signer information of other classes in the same
package
```

This occurs because the **cglib.jar** in JBoss Enterprise Web Platform 5.0 is signed, and the cglib-instrumented proxy uses the **cglib.jar** signer information instead of the signer information of the application target class.

The patch for this issue has been released alongside JBoss Enterprise Web Platform 5.0 and can be downloaded from [Red Hat Support](#).

- ▶ [JBPAPP-2957](#): The **evictAll()** method in **EntityRegionAccessStrategy** and **CollectionRegionAccessStrategy** attempts to remove objects from the cache without regard for transaction isolation. Disregarding transaction isolation is currently unsupported because JBoss Cache is allowed visibility to any active transaction and will therefore use the transaction to control access to data in the cache.
- ▶ [JBPAPP-2945](#): Setting the query timeout for a PreparedStatement is not supported by PostgreSQL 8.3.7. This limitation means that queries will fail if they use an annotation like the following:

```
@QueryHint(name = "org.hibernate.timeout", value = "100")
```

- ▶ [JBPAPP-2892](#): When Enterprise JavaBean 3.0 entities are used with optimistic caching, **org.jboss.ejb3.entity.OptimisticJBCCache.DataVersionAdapter.newerThan** incorrectly returns **true** for **A.newerThan (A)**. This causes a **DataVersioningException** when JBoss Cache attempts to remove the entry. The workaround for this issue is to use Multiversion Concurrency Control (**mvcc-entity**) instead of optimistic caching. This is recommended even if the exception has not been observed.
- ▶ [JBPAPP-2867](#): Sybase does not currently support Hibernate **Blobs** or **Clobs**, and Hibernate does not support Sybase **text** or **image** data types. The workaround for this issue is to create user-defined types that map to the Sybase **text** and **image** types.
- ▶ [JBPAPP-2789](#): **SchemaExport** fails on Oracle and Sybase when a redundant **@Column(unique=true)** or **UniqueConstraint(columnnames={...})** annotation is used on a column that is implicitly defined as unique by the declared model. The workaround is to remove the redundant **@Column(unique=true)** or **UniqueConstraint(columnnames={...})** annotation.
- ▶ [JBPAPP-2613](#): When the DB2 v9.7 driver is used with progressive streaming (the default), operations on **Blob** and **Clob** locators fail. The workaround is to disable progressive streaming using connection properties, as recommended in the linked JIRA issue.
- ▶ [JBPAPP-2408](#): An issue exists with the DB2 v9.7 driver when using an identity or native ID generator with Hibernate. The **Statement.getGeneratedKeys()** driver method in DB2 returns an empty *resultset* instead of the generated keys, which causes Hibernate to throw an exception that states that the database returned no natively generated identity value. This issue has been fixed in the version of DB2 9.7 JDBC driver released with Data Studio 2.2 and is available for download from the DB2 website. This is the recommended version for use with Hibernate.
- ▶ [JBPAPP-2278](#): The **Save** operation may fail when a transient entity is reachable by multiple paths and at least one of those paths does not cascade for the **Save** operation. The current workaround for this is to save the transient entity before executing the save that had previously failed. If this is not possible, another workaround is to modify either or both cascade and entity mappings to change the order of the cascade paths so that the transient entity is saved before it cascades to the entity that requires it to be non-transient.
- ▶ [JBPAPP-2277](#): Hibernate uses **ClassLoader.loadClass()** for arrays, which is no longer supported by default as of Java 6. The current workaround for this issue is to use the `-Dsun.lang.ClassLoader.allowArraySyntax=true` property. This workaround is implemented by default as the default in **jboss-eap-5.0/jboss-as/run.conf**.
- ▶ [JBPAPP-2276](#): The iteration order of **HashMaps** and **HashSets** for JDK 6 causes the order of columns in union clauses or union subclasses to differ depending on whether JDK 5 or 6 is used. Since the change in column order is consistent across union clauses, the resulting queries are valid; however, this change can potentially affect performance.
- ▶ [JBPAPP-2275](#): Hibernate cannot be compiled under JDK 6. This occurs because the following classes require methods to be added in order to fully implement JDK 6 interfaces:
 - **org.hibernate.jdbc.ResultSetWrapper**
 - **org.hibernate.lob.BlobImpl** to implement **java.sql.Blob**
 - **org.hibernate.lob.ClobImpl**
 - **org.hibernate.lob.SerializableBlob**
 - **org.hibernate.lob.SerializableClob**

If the application you are running requires a method missing from the above classes, a `NoSuchMethodError` will be generated.

- ▶ [JBPAPP-2922](#): Hibernate warns that **The CGLIB BytecodeProvider impl is considered deprecated and not recommended for use.** `cglib` is not deprecated, so this warning can be safely ignored.
- ▶ [JBPAPP-2792](#): Sybase fails to insert a new entity if it overflows its column. However, it does not throw an exception, so Hibernate cannot tell that the insert failed. To work around this issue, the application must validate entity properties to ensure that they do not overflow the underlying column.
- ▶ [JBPAPP-2791](#): **SchemaUpdates** fail in Sybase ASE 15 tables when a new column is added without a default value. To work around this issue, ensure that a default value is included when adding new columns with **SchemaUpdate**.
- ▶ [JBPAPP-1613](#): Null values for columns mapped as **Boolean** in Sybase are persisted as **0** instead of **null**. The workaround for this issue is to map **type="org.hibernate.test.where.NumericTrueFalseType"** instead of **type="boolean"**.
- ▶ [JBPAPP-1554](#): Sybase only allows only one entry (for example, column name or `'*`) in a subquery select list. The HQL function, **elements()**, fails when the collection elements have a composite ID, because the generated SQL contains a subquery select list with multiple entries. The workaround is to avoid using HQL **elements()** if the elements have a composite key. Instead, reformulate the HQL so that no subquery has multiple entries in its select list.
- ▶ [JBPAPP-1547](#): **org.hibernate.dialect.SybaseASE15Dialect.areStringComparisonsCaseInsensitive()** returns **false** and is not overridden by **SybaseDialect**.
- ▶ [JBPAPP-1545](#): On Sybase, when a query has an ANSI join with three or more joins, and one join involves a union subclass, the query may fail with **SybsSQLException** because a column is not within the scope of the joined table expression. The current recommendation is to avoid using join fetches that involve union subclasses.
- ▶ [JBPAPP-2858](#): **getSingleResult()** fails for some databases and queries when automatic pagination is attempted. The workaround for this issue is to use **getResultList()** instead of **getSingleResult()**.
- ▶ [JBPAPP-1998](#): **EntityNotFoundException** is incorrectly thrown upon an optimistic locking failure when one **EntityManager** tries to delete an entity that has been updated by a different **EntityManager** and **hibernate.jdbc.batch_versioned_data** is set to **false** (the default value). **OptimisticLockException** should be thrown instead.
- ▶ [JBPAPP-1230](#): When a **DetachedCriteria** is used as a subquery, the generated SQL contains a column alias in the subquery. On Sybase, a **SybsSQLException** is thrown because Sybase does not allow column aliases in subqueries. The workaround for this issue is to use an HQL query instead of a **DetachedCriteria** in a subquery.
- ▶ [JBPAPP-1123](#): When **@OrderBy** is used on joined classes (using a join table), the generated SQL is invalid on MySQL, PostgreSQL, Oracle, and MSSQL because the "order by" clause qualifies the columns using the actual table name. The "order by" clause should use the table alias instead.
- ▶ [JBPAPP-1082](#): When a **char** property is used and it is not initialized, then Hibernate initializes it to **0** and persists a string containing the character `\u0000`. PostgreSQL throws an exception because it does not allow character `\u0000` embedded in a string. An email thread describing this problem is available from:
 - <http://markmail.org/message/jvzlzxw6ui2rcsmv#query:\u0000%20postgresql+page:1+mid:gpu34f4iwanbyjqh+state:results>
 There is currently no workaround for persisting `\u0000` in a **char** column using PostgreSQL. If the user intends to persist a NULL for an uninitialized **char** property instead of `\u0000`, then **java.lang.Character** should be used instead of the primitive **char** type. This avoids the exception when the property is initialized. Attempting to persist a **java.lang.Character** property that is set to `\u0000` still results in an exception.
- ▶ [JBPAPP-1071](#): In some cases, when there are foreign key constraints defined on columns in a primary key, **SchemaExport** incorrectly declares them as nullable when it generates **CREATE TABLE** statements. This fails on MSSQL, DB2, and Sybase because those databases require primary key columns to be non-nullable. The workaround for this issue is to explicitly indicate which columns should be non-nullable, such as:
 - Add **nullable=false** to **@JoinColumn**
 - Add **optional=false** to **@ManyToOne**

- Add an `@AttributeOverride` with `@Column(name="mapkey", nullable=false)` in case of a `@CollectionOfElements` using a `Map`
- Add `nullable=false` in `@Column` when inside a `@CollectionId` or inside `@MapKey`
- [JBPAPP-3010](#): The `evict(Object)` method in `EntityRegionAccessStrategy` and `CollectionRegionAccessStrategy` attempts to remove objects from the cache without regard for transaction isolation. This is currently unsupported because JBoss Cache's `removeNode` method does not deal with transactions.
- [JBPAPP-3019](#): The `doc/examples/jboss-web-services-examples` context causes a number of exceptions to occur. This context error means that the JBoss Web Services examples will not work correctly.

JBoss Web Services Known Issues

- [JBPAPP-3028](#): The upgrade from JBoss Web Services 2.0.1.SP to JBoss Web Services Native 3.1.2.SP incorporated many changes and new features. The additional processing time required for several new features (resource injection, support for `@PostConstruct` and `@PreDestroy`, etc.) has resulted in a slight degradation in overall performance.

RESEasy Known Issues

- [JBPAPP-3802](#): the readme file for the JAXB/JSON example located at `doc/examples/reteasy-examples/jaxb-json/README.txt` contains the wrong Maven goal. The following text is incorrect:

```
- mvn jetty6:run-exploded
```

It should read as follows:

```
- mvn jetty:run-exploded
```

Seam Known Issues

- [JBPAPP-3572](#): The Seam `todo` example application cannot be deployed because `bsh.jar` is not included as part of JBoss Enterprise Web Platform. Attempting to deploy this example application will result in a `java.lang.NoClassDefFoundError`.
- [JBPAPP-3562](#): Seam integration with jBPM currently requires that `bsh-1.0.jar` be added to your application's `lib` directory. You can download this JAR file from <http://repository.jboss.org/maven2-brew/org/beanshell/bsh/1.3.0/bsh-1.3.0.jar>.
- [JBPAPP-3561](#): The Seam `remoting/chatroom` example was included in this distribution, but cannot be deployed on JBoss Enterprise Web Platform because it relies on JBoss Messaging functionality.
- [JBPAPP-3543](#): The Seam `seambay` example cannot be deployed because `quartz.jar` is not included as part of JBoss Enterprise Web Platform.
- [JBPAPP-3541](#): Seam cannot be compiled from source because its `root.pom.xml` references an incorrect version of `javax.transaction:jta:jar`.
- [JBPAPP-2385](#): Seam's Spring example fails with an `IllegalStateException` when the login form is submitted on the IBM virtual machine. This is due to a defect in the IBM virtual machine. The fix for this issue has been deferred until the IBM virtual machine has been fixed.
- [JBPAPP-2377](#): The Seamspace example fails with a `NullPointerException` when submitting a new blog entry on the IBM virtual machine. This is due to a defect in the IBM virtual machine. The fix for this issue has been deferred until the IBM virtual machine has been fixed.
- [JBPAPP-3001](#): The seam script included in this distribution does not have an executable permission set. An executable permission set is planned for inclusion in the next release of JBoss Enterprise Web Platform 5.

mod_cluster Known Issues

- [JBPAPP-3724](#): In `mod-cluster-jboss-beans.xml`, the default value for `maxAttempts` is incorrectly set to `-1`. This value is invalid. The correct value, `1`, is used by default.
- [JBPAPP-3463](#): When an application is undeployed, sessions that were forwarded to the application server by `mod_cluster` before undeploy notification was received may result in an error 503 - This application is not currently available.

- ▶ [MODCLUSTER-123](#): If the **root** context ("/") is deployed and enabled, other contexts cannot be disabled. It is also impossible to specify that other contexts not be forwarded to the **root** context.
- ▶ [MODCLUSTER-120](#): Should you encounter an **[emerg] create_mem_node <node file path> failed** error, use the **ipcrm -m** command before restarting httpd.
- ▶ [MODCLUSTER-113](#): **org.jboss.modcluster.demoservlet.ThreadCountLoadServlet** has been removed from mod_cluster but is still specified in the **web.xml** file belonging to **load-demo.war**. This results in deployment errors. The workaround for this issue is to remove the **<servlet>** and **<servlet-mapping>** sections for the **threads** servlet.

A. Revision History

Revision 5.0.0.1-7.400 Rebuild with publican 4.0.0	2013-10-31	Rüdiger Landmann
Revision 5.0.0.1-7 Rebuild for Publican 3.0	2012-07-18	Anthony Towns
Revision 1.5-0 JIRA corrections.	Tue Mar 02 2010	Laura Bailey