



# **JBoss Enterprise Application Platform 5**

## **Release Notes 5.1.0**

for use with JBoss Enterprise Application Platform 5.1.0

Edition 5.1.0



# JBoss Enterprise Application Platform 5 Release Notes 5.1.0

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Edition 5.1.0

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## Abstract

These release notes contain important information related to JBoss Enterprise Application Platform 5.1.0 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 5.1.0.

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## 1. INTRODUCTION

These release notes contain important information related to JBoss Enterprise Application Platform 5.1.0. New features, issues fixed in this release, and other known issues are addressed here.

### 1.1. Overview

#### About JBoss Enterprise Application Platform

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.

By integrating best-of-breed open source frameworks such as JBoss Seam, Hibernate, CXF Web Services, JBoss Cache, and JBoss Messaging, 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.

#### About this release

JBoss Enterprise Application Platform 5.1.0 is a *minor release*. Minor releases aggregate the contents of prior patches and Cumulative Patches (CPs), and may add additional new functionality. Subsequent patches and Cumulative Patches assume the installation of the minor update that preceded them. During the life cycle of a product's major version, Red Hat makes commercially reasonable efforts to maintain API-level compatibility across all minor releases and asynchronous patches, ensuring that, for example, JBoss Enterprise Application Platform 5.1.0 maintains API-level compatibility with JBoss Enterprise Application Platform 5.0.0, the initial release of JBoss Enterprise Application Platform 5. Possible exceptions to this rule include fixes addressing critical security issues.

With the release of JBoss Enterprise Application Platform 5.1.0, JBoss Enterprise Application Platform 5.0.x customers should update to JBoss Enterprise Application Platform 5.1.0.

Refer to the [JBoss Enterprise Middleware Product Update and Support Policy](#) for further information.

## 2. FEATURES INTRODUCED WITH JBOSS ENTERPRISE APPLICATION PLATFORM 5.1.0

JBoss Enterprise Application Platform 5.0.x contained many updated and new components. JBoss Enterprise Application Platform 5.1.0 adds performance enhancements, JBoss Web Services CXF Stack, and support for JDBC 4, and introduces PicketLink Federation as a Technology Preview. These components are detailed in this section.

### 2.1. Red Hat Enterprise Linux 6 Support

The ZIP distribution of JBoss Enterprise Application Platform 5.1 is fully tested for use with Red Hat Enterprise Linux 6. The appropriate Native packages are available from <http://access.redhat.com>.

The RPM distribution of JBoss Enterprise Application Platform 5.1 for Red Hat Enterprise Linux 6 is not yet available.

### 2.2. The Native Package

The Native Package has been renamed following the pattern **jboss-ep-native-5.1.0\*.zip**. This new consolidated Native Package can be used with JBoss Enterprise Application Platform or with JBoss Enterprise Web Platform.

The Native package has also been expanded to provide NSAPI for Solaris technology. NSAPI is a connector used to connect Sun Java System Web Server to JBoss Enterprise Application Platform.

## 2.3. JBoss Web Services

JBoss Enterprise Application Platform 5.0 introduced a pluggable architecture to provide choice of Web Services Stack, along with JBoss Web Services Native as the supported Web Services provider. JBoss Enterprise Platform 5.1.0 introduces an alternative Web Services stack, JBoss Web Services CXF.



### NOTE

The choice of Web Services stack used by the Platform must be made at the time of installation. Refer to the *Installation Guide* for further details.

### JBoss Web Services Native

JBoss Web Services Native is the Java EE 5-compliant JBoss implementation of web services standards. It is the only web services stack for versions of JBoss Enterprise Application Platform prior to 5.1, and is the default web services stack in JBoss Enterprise Application Platform 5.1.0.

### JBoss Web Services CXF

JBoss Web Services CXF provides most of the features available in Apache CXF (including WS-Security, WS-Policy, WS-Addressing, WS-ReliableMessaging, basic WS-Trust, MTOM), plus common JBoss Web Services stack features like endpoint metrics, record management and endpoint address rewrite. JBoss Enterprise Application Platform 5.1.0 introduces JBoss Web Services CXF stack as an optional Web Services stack.

## 2.4. Hibernate

Hibernate now offers full support for Java Database Connectivity 4 (JDBC 4), which enables greater Clob and Blob support, and more sophisticated exception handling.

## 2.5. PicketLink Federation

PicketLink Federation is a security and identity framework providing support for SAML v2.0 and WS-Trust. JBoss Enterprise Application Platform 5.1.0 introduces PicketLink as a Technology Preview.

## 2.6. Features introduced in previous releases

### 2.6.1. Features introduced with JBoss Enterprise Application Platform 5.0.1

#### 2.6.1.1. The Native Package

The Native package has been expanded to provide mod\_cluster and ISAPI for Windows technologies, in addition to JBoss Native and mod\_jk. The added technologies are described as follows:

- **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; however it also employs a communications channel from server nodes to the load balancer, providing real-time feedback



and enabling more efficient load optimization and request routing. See the `mod_cluster` documentation available from <http://docs.redhat.com/> for further details.

- **ISAPI** is a connector used to connect the Microsoft IIS web server to JBoss Enterprise Application Platform.

#### 2.6.1.1.1. Native Solaris SPARC Packages

Native Solaris SPARC packages are provided from this release of JBoss Enterprise Application Platform onward. See the JBoss Enterprise Application Platform *Installation Guide* for native package installation instructions.

### 2.6.2. Features introduced with JBoss Enterprise Application Platform 5.0

#### 2.6.2.1. JBoss AS

The JBoss AS 5 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 messaging, persistence, transactions, caching and high-availability.

#### 2.6.2.2. 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.

#### 2.6.2.3. JBoss Messaging

JBoss Messaging is the default JMS provider in JBoss Enterprise Application Platform 5.1. It is a complete rewrite of JBossMQ, the legacy JBoss JMS provider, which compared to JBossMQ offers improved performance in both single-node and clustered environments.

#### 2.6.2.4. 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).

#### 2.6.2.5. JBoss Web Services Native

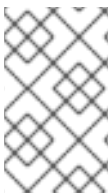
JBoss Web Services Native is the Java EE 5-compliant JBoss implementation of web services standards. It is the only web services stack for versions of JBoss Enterprise Application Platform prior to 5.1, and is the default web services stack in JBoss Enterprise Application Platform 5.1.

#### 2.6.2.6. The Native Package

The Native package is an optional component for the JBoss Enterprise Application 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 Tomcats 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.

## 3. COMPONENT VERSIONS

This section details the versions of the components which create the Enterprise Application Platform 5.1.

**Table 1. Component version comparison between releases 5.1.0 and 5.0.1**

Component	EAP 5.1	EAP 5.0.1
JBoss Application Server	5.1.0.GA	5.1.0.GA
JBoss Microcontainer	2.0.10.GA	2.0.9.GA
JBoss Native	2.0.9.GA	2.0.9.GA
Hibernate Core	3.3.2.GA_CP03	3.3.2.GA_CP01
Hibernate Entity Manager	3.4.0.GA_CP03	3.4.0.GA_CP01
Hibernate Annotations	3.4.0.GA_CP03	3.4.0.GA_CP01
Hibernate Search	3.1.1.GA_CP03	3.1.1.GA_CP01
Hibernate Validator	3.1.0.GA	3.1.0.GA
Clustered Remote EJB3 Proxies	1.3.6.GA	1.1.22.GA
JBoss Cache	3.2.5.GA	3.2.1.GA

Component	EAP 5.1	EAP 5.0.1
JBoss HA Server API	1.1.3.Final	1.1.1.GA
JBoss JAXR	2.0.1	2.0.1
JGroups	2.6.16.GA	2.6.13.GA
JBoss EJB3	1.3.6.GA	1.1.22.GA
JBoss JTA	4.6.1.GA_CP07	4.6.1.GA_CP03
JBoss JTS	4.6.1.GA_CP07	4.6.1.GA_CP03
JBoss Negotiation	2.0.3.SP3	2.0.3.SP1
JBoss Managed	2.1.1.GA	2.1.1.GA
JBoss Messaging	1.4.7.GA	1.4.6.GA
JBoss Metadata	1.0.6.GA	1.0.2
JBoss Web	2.1.10.GA	2.1.7.GA
JBoss Web Services - Native	3.1.2.SP7	3.1.2.SP3
JBoss Web Services - CXF	3.1.2.SP7	-
JBoss AOP	2.1.6.CP01	2.1.6.GA
JBoss Remoting	2.5.3.SP1	2.5.2
JBoss Serialization	1.0.4.FINAL	1.0.3.GA
JBoss XB	2.0.1.GA	2.0.1.GA
JavaServer Faces	1.2_13	1.2_13
JacORB	2.3.1.jboss.patch01	2.3.1.jboss.patch01
JPA	1.0.0	1.0.0
JBoss Security	2.0.4.SP4	2.0.4.SP1
JBoss Profiler-jvmti	1.0.0.CR5	1.0.0.CR5
Admin Console	1.3.4.SP1	1.3.2.GA

Component	EAP 5.1	EAP 5.0.1
mod_jk	1.2.30	1.2.28
mod_cluster	1.0.4.GA	1.0.3.GA
Seam	2.2.2.EAP5	2.2.1.EAP5
RESTEasy	1.2.GA_CP01	1.1.GA_CP01
RichFaces (in Seam)	3.3.1.SP2	3.3.1.GA



## NOTE

JBoss Enterprise Application Platform 5.1 includes PicketLink Federation as a Technology Preview.

Technology Preview features are not fully supported under Red Hat subscription level agreements (SLAs), may not be functionally complete, and are not intended for production use. However, these features provide early access to upcoming product innovations, enabling customers to test functionality and provide feedback during the development process. As Red Hat considers making future iterations of Technology Preview features generally available, we will provide commercially reasonable efforts to resolve any reported issues that customers experience when using these features.

## 4. INSTALLATION NOTES

### 4.1. Supported Configurations

An up-to-date matrix of compatible and certified configurations is available at <http://www.jboss.com/products/platforms/application/supportedconfigurations/>. Please refer to this list for information on tested and supported configurations.

### 4.2. Installing JBoss Enterprise Application Platform

Refer to the *Installation Guide* for instructions on installing and verifying the installation of the JBoss Enterprise Application Platform.

### 4.3. Default Startup Profile

The default startup profile is **default** which is a base Java EE 5 server profile containing a default set of services. It contains the most frequently used services required to deploy a Java EE 5 application. It does not include the JAXR service, the IIOOP service, or any of the clustering services.

The **default** profile is not intended for production use or for the running of load, stress, availability or performance tests. In addition, the performance of this beta release does not necessarily represent the final release.

### 4.4. Source Files

## Source ZIP

- <ftp://ftp.redhat.com/pub/redhat/jbeap/5.1.0/en/source/jboss-eap-src-5.1.0.zip>

## 5. PRODUCT SUPPORT

Bugs, potential bugs, and development issues and/or questions should be filed as JBoss support cases via the Customer Support Portal, <http://access.redhat.com>.

## 6. DOCUMENTATION

In this release the JBoss Transactions Documentation is restructured and consolidated into the *Transactions Development Quick Start Guide*, *Transactions Administrators Guide*, and *Transactions Development Guide*.

This release also sees the addition of the *JBoss Security Guide*, which brings together the Platform's security-related information.

JBoss WS CXF, introduced in this release, contributes a User Guide to the Platform documentation set.

All API documents, code examples and a link to the online release notes are distributed in a separate ZIP file, **jboss-eap-docs-`<version>`.zip**.

All other guides and documentation are available online at <http://docs.redhat.com>. Select the appropriate product name (JBoss Enterprise Application Platform) and stream (5) from the sidebar, as shown in the image on the front page.

Your feedback on our documentation is highly appreciated. You can directly contact the documentation team via <http://jira.jboss.org>.

## 7. TECHNOLOGY PREVIEWS

This section describes the Technology Preview features released alongside JBoss Enterprise Application Platform, their installation, and any known issues.



### WARNING

Technology Preview features are not fully supported under Red Hat subscription level agreements (SLAs), may not be functionally complete, and are not intended for production use. However, these features provide early access to upcoming product innovations, enabling customers to test functionality and provide feedback during the development process. As Red Hat considers making future iterations of Technology Preview features generally available, we will provide commercially reasonable efforts to resolve any reported issues that customers experience when using these features.

### 7.1. PicketLink

PicketLink Federation brings Identity Federation and Single Sign-on to the Platform, with support for SAML 2.0, WS-Trust 1.3, XACML 2.0 (via JBossXACML), and OpenID 1.1 and 2.0. Refer to the *Installation Guide* for information about installing PicketLink.

## 8. EXCLUDED, REMOVED AND DEPRECATED ITEMS

### Excluded, Deprecated, and Removed Items

#### Excluded

An item that has never featured in a product release but is otherwise part of one of the open source components of the product, is an *excluded item*.

#### Deprecated

An item that will be removed from a future release, usually the next major version, is a *deprecated item*.

#### Removed

An item that was previously in a release of the product and is no longer included is a *removed item*. Items will usually be deprecated before being removed.

### 8.1. Excluded Items

No items are excluded in this release.

### 8.2. Deprecated Items

The following items are deprecated in this release.

- JBoss Cache [JBAS-7837](#)
  - Pojo Cache FIELD replication granularity [JBAS-7560](#)
- JMX Console [JBAS-7509](#)
  - JFreeChart [JBAS-7716](#)
- JMX Remoting [JBAS-7510](#)
- org.jboss.jdo.castor.CastorJDOImpl MBean [JBAS-7511](#)
- JDBC3 (JDK5) classes in the JDBC adaptor [JBAS-7527](#)
- Java Remote Method Protocol Invoker and HA Invoker [JBAS-7563](#)
- PooledInvoker and PooledInvokerHA [JBAS-7564](#)
- HASessionStateTopologyComputer and HASessionStateTopologyComputerImpl [JBAS-7992](#)
- SubPartitionsInfo and SubPartitionInfo interfaces [JBAS-7992](#)
- cglib

### 8.3. Removed Items

No items are removed in this release.

## 9. ISSUES FIXED IN THIS RELEASE

Following are the issues fixed in this release:

### 9.1. General Fixed Issues

#### JBPAPP-6987

Microcontainer beans were being registered as MBeans on deployment. These MBeans are optional and provide some debugging information. This behavior has now been turned off by default.

Microcontainer beans are no longer registered as MBeans on deployment by default.

#### JBPAPP-4730

The specific combination of JBoss Native, 64-bit hardware, and the **-javaagent** Java option caused systems to hang when executing the **run.sh** script. The script passed user supplied parameters to Java while making a call to check for the system architecture. The **run.sh** script is now modified to ignore user supplied parameters when making this call, and the script no longer hangs under this condition.

#### JBPAPP-4683

When a management tool used the ProfileService management interface (as the embedded console does) to update the ServiceBindingManager service, the mapping of the received information was incorrect. The received value for a binding's "fixedHostName" property was applied as "fixedPort" and vice versa. In most cases, both properties are "false" so this was harmless. However, if either property were true, this led to an incorrect binding upon server restart when the updated values were applied. This has been corrected and the mappings are now applied as expected.

#### JBPAPP-4471

When user-type-mapped types were used in ejbql aggregate functions like MIN and MAX, a CCE exception was thrown. This is now fixed and CMP fields of types mapped with user-type-mapping can appear in aggregate functions in the SELECT clause of an EJB-QL query.

#### JBPAPP-3942

The **run.sh** script now creates a file to track processes and make it easier to obtain process IDs, **jboss.pidfile**. See the JIRA for further details.

#### JBPAPP-3674

A status servlet error existed for <distributed> web apps. The Cache session manager had different attributes from the Web manager, but was perceived as the same JMX object because of a lack of case sensitivity. StandardManager used 'activeSessions' while the clustered version was 'ActiveSessions'. The code used by the servlet to render the status information can now detect and handle upper and lower case letters in the JMX attribute names for a session manager.

#### JBPAPP-3171

JBPAPP-544 fixed a security issue by removing the mapping for /status, leaving only the secure /web-console/status available. However, the unsecured /status was reincluded in JBPAPP-1146. This has been fixed by configuring the **ROOT.war** webapp's security. It solves the original problem of securing, and leaves the /status intact.

### JBPAPP-2571

Running the Microsoft SQL server with Microsoft JDBC drivers 2.0 causes unstable builds in JBoss Messaging. This issue is created by the **Adaptive Buffering** being the default behavior for the driver as this only allows for large values to be read once by using the **get<Type>Stream** method. The current workaround for this issue is to change the **responseBuffering** parameter of the JDBC connection URL from being **adaptive**, to being **full** (as it was for version 1.2 of the JDBC driver).

```
<url>jdbc:sqlserver://[host];database=[database];responseBuffering=full;
</url>
```

### JBPAPP-1774

Red Hat Enterprise Linux 5 users installing the JBoss Enterprise Application Platform rpm using **yum** must be subscribed to the Red Hat Enterprise Linux Extras channel in order to satisfy the Java requirement of JBoss Enterprise Application Platform with either the Sun or the IBM Java Development Kit.

## 9.2. Hibernate Fixed Issues

### JBPAPP-4579

Using **session.createSQLQuery** caused a memory leak because the **equals** and **hashCode** methods in **NativeSQLQuerySpecification** were incorrectly implemented, and concurrent use of **LRUMap** caused the map to grow larger than its maximum limit. These issues have been corrected and the memory leak no longer occurs.

### JBPAPP-4326

The changes for [JBPAPP-4471](#) caused an issue when users mapped non-JDK Serializable classes with **SerializableType**, and attempted to cache those values into a second level cache. **SerializableType** reported the classloader of **java.io.Serializable** as the classloader to use for deserialization. However, this classloader could not see into the classloader, or non-JDK classes.

The classloader from **org.hibernate.util.SerializationHelper.deserialize(InputStream, ClassLoader)** now attempts to resolve the classloader that needs to be deserialized. If it cannot do this successfully, it uses the context classloader from the current thread and the classloader that loads the Hibernate class.

### JBPAPP-4224

The Query Cache required the session or entity manager to be closed and reopened before it will become effective because Hibernate compares the timestamp of a cached query with the timestamp of the current session when it retrieves a query from the cache. This has now been fixed, and Hibernate uses **nextTimestamp()** to fetch the current timestamp rather than the cached timestamp.

### JBPAPP-4183

**@CollectionId** describes an identifier column for a bag (an idbag, for example). **nullable** should have been set to false explicitly. This has been corrected, and **nullable** is now set to **false** by default.

### JBPAPP-4123

PostgreSQL failed to drop **SchemaExport** if constraint names changed. Hibernate now issues a



cascade when it tries to drop a table, fixing the issue.

### JBPAPP-4105

Hibernate uses **StandardDialectResolver** to guess the Hibernate dialect if the **hibernate.dialect** property is not found in the Hibernate properties file, **hibernate.cfg.xml**, or **persistence.xml**. **StandardDialectResolver** returned **SybaseDialect** if the database name it extracted from database metadata is **Sybase SQL Server** or **Adaptive Server Enterprise**. However, because **SybaseDialect** is deprecated, this caused some problems. The **StandardDialectResolver** now guesses the correct dialect to use if **hibernate.dialect** is not configured.

### JBPAPP-4095

When scrolling a HQL query with join fetch on a collection, **FetchingScrollableResultsImpl.last()** did not move to the last result if the cursor was positioned after the last result. Instead, the cursor stayed in position after the last result. This could cause **org.hibernate.exception.GenericJDBCException: could not perform sequential read of results**. The fix for this issue ensures that the cursor moves to the last result, as expected.

### JBPAPP-4088

When a column name was defined in backticks (```), **@JoinTable** and **@JoinColumn** mappings failed with **AnnotationException** when the column name with backticks was referenced. Hibernate now compares the **referencedColumnName** with the column's quote name rather than the table column's name.

### JBPAPP-4022

**getColumnSpan** returned **0** when comparing entities with **OneToOne** mappings, even when comparing the same entity, which resulted in **TypeMismatchExceptions**. The algorithm of **getColumnSpan** has changed so that the column span can be identified by its identifier or unique key type.

### JBPAPP-3946

**LikeExpression** did not handle the **ignoreCase** flag properly when **ignoreCase** was set to false. The correct SQL **property like ?** was built, but the flag inside **getTypedValues** was not used, and a lowercase value was always produced. This issue has been fixed, and lowercase or the original case is used when **ignoreCase** is set to false.

### JBPAPP-3737

In a stateless session, queries load objects in a two-phase process: in the first phase, a temporary persistence context is populated with empty objects; in the second phase, the objects' member data is read from the database. If an object contains an association or a collection, the query performs a recursive call to the session's **get()** method. This clears the temporary persistence context.

If the parent object contained any other associations to be read as part of the second phase, Hibernate threw an assertion because the associations cannot be found in the persistence context.

This has been fixed by introducing a new method:

**org.hibernate.engine.PersistenceContext.isLoadFinished()**. This method tells **StatelessSession** when to clean the temporary persistence context.

### JBPAPP-3565

A bug in `org.hibernate.cfg.OneToOneSecondPass` code sometimes caused an `org.hibernate.PropertyValueException` when processing a one-to-one mapping. The exception occurred because when JOINS did not contain `otherSideProperty`, `otherSideJoin` retained old data instead of being null. The `org.hibernate.cfg.OneToOneSecondPass` code has been corrected.

#### JBPAPP-3487

Hibernate generated the wrong alias in the table-pre-class inheritance strategy in some situations. (See the JIRA for examples.) `AbstractCollectionPersister` now uses the key column aliases generated by `Column.getAlias(Dialect, Table)`, so the table-pre-class inheritance strategy mapping is correct.

#### JBPAPP-2440

When a cache provider could not be found, a `NoClassDefFoundError` was thrown with the message:

```
net/sf/ehcache/CacheException
```

When a connection provider could not be found, a `HibernateException` was thrown with the following message:

```
Could not instantiate connection provider: "+ providerClass
```

More informative messages are now thrown when these errors occur.

#### JBPAPP-2276

The iteration order of `HashMaps` and `HashSets` for JDK 6 caused the order of columns in union clauses or union subclasses to differ depending on whether JDK 5 or 6 was used. Since the change in column order is consistent across union clauses, the resulting queries were valid; however, this change could affect performance. The implementation of `HashSet` has been changed to `LinkedHashSet`, for identical performance between the different JDKs.

#### JBPAPP-2275

Hibernate could not previously be compiled under JDK 6 because the following classes did not 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`

A `NoSuchMethodError` occurred when an application required a method that was missing from these classes. The missing methods have now been implemented and this error no longer occurs.

## 9.3. Remoting Fixed Issues

#### JBPAPP-3709

When `org.jboss.remoting.marshall.MarshallerLoaderHandler` got a request for a class, it returned an instance of `org.jboss.remoting.loading.ClassBytes`. If `MarshallerLoaderHandler` was unable to find the desired class, then the returned `ClassBytes` object had a null value for the class byte array. However, `org.jboss.remoting.loading.ClassByteClassLoader` does not check for the possibility of a null byte array, so a `NullPointerException` resulted. [JBREM-1184](#), which caused this issue, has been fixed.

## 9.4. Seam Fixed Issues

### JBPAPP-4876

On injection of a jBPM `ProcessInstance` to a Seam component, the process instance returned was registered for auto-save. This caused a performance issue, as the jBPM `ManagedContext` saves all instances in the `autoSaveProcessesList` when it closes. The code for returning a `ProcessInstance` on injection has been changed, and the process instance is no longer registered for auto-save.

### JBPAPP-4685

An input sanitization flaw was found in the way JBoss Seam processed certain parametrized JBoss Expression Language (EL) expressions. A remote attacker could use this flaw to execute arbitrary code via a URL, containing appended, specially-crafted expression language parameters, provided to certain applications based on the JBoss Seam framework. Note: A properly configured and enabled Java Security Manager would prevent exploitation of this flaw. ([CVE-2010-1871](#))

Red Hat would like to thank Meder Kydyraliev of the Google Security Team for responsibly reporting this issue.

### JBPAPP-4577

A change to Seam's `getInstanceFromFactory` method to fix a concurrency issue caused some applications to enter a deadlock situation in a very specific combination of circumstances. The original fix to `getInstanceFromFactory` was revised, and the issue has not been observed since.

### JBPAPP-4568

Seam was distributed with a copy of `activation.jar` in its `/lib` directory. This file is also supplied by JDK 6. The copy in Seam has been removed.

### JBPAPP-4509

Rich:comboBox components in Seam apps created with `seam-gen` were missing the drop-down arrow graphic. This was fixed by modifying the cascading style sheet used to control the display of the component in a web browser. The arrow graphic is now displayed correctly.

### JBPAPP-4317

Seam would fail if two components with the same class name were found on the classpath, with an error: `"java.lang.IllegalStateException: Two components with the same name and precedence -"`, followed by the component and class names. Seam has been updated, and will now ignore any duplicate classes. When duplicate components are encountered with the same classname, the first one encountered will be loaded, and any subsequent components on the classpath with the same classname will be ignored.

### JBPAPP-4273

**MockServletContext** was unaware that JBoss Enterprise Application Platform 5 used the Virtual File System. It therefore attempted to access URIs as files. **MockServletContext** now recognizes the web application root and fetches the path of the URL class, ensuring that the protocol does not form part of the **java.io.File** constructor parameter.

#### JBPAPP-4259

Seam-gen templates used **resource://** for objects that were not on the classpath. This resulted in an error when trying to transform a RichFaces template (XCSS) into a CSS file. Seam-gen no longer uses **resource://**, fixing the issue.

#### JBPAPP-4015

When hot deployment was used for EARs that contained multiple WAR files, the first web application accessed worked correctly, but web requests to subsequent web applications caused a **NullPointerException**. This occurred because the application context was not set up when the hot deployment filter ran. Each operation related to web application context now checks for the current **javax.servlet.ServletContext**, resolving the issue.

#### JBPAPP-4013

When using the web services page of the Seambay example in Internet Explorer 8, values entered in the username and password fields do not propagate to the request area because of an undefined JavaScript object. This has been corrected.

#### JBPAPP-4012

The Tasks example did not work correctly in Internet Explorer 8. When "Undo this Task" is selected on the Resolved Tasks page, the task returns to the Tasks page, but does not disappear from the Resolved Tasks page. This issue has been fixed by turning off Ajax request caching.

#### JBPAPP-4010

Resources from the resource servlet, such as CAPTCHA images, were cached by the browser and did not re-render correctly because of incorrect response headers in **org.jboss.seam.captcha.CaptchaImage**. The response headers have been corrected so that this no longer occurs.

#### JBPAPP-4009

In Seam mail, attachments were not always included inline, so attachments were not visible in some mail clients. The patch for this issue was backported from [JBSEAM-4630](#), and attachments should now be visible.

#### JBPAPP-4008

If **ELSupport.coerceToType** was called with an **BigDecimal** instance as the first Parameter 'obj' and **BigDecimal.class** as type, the **BigDecimal** would be converted into a double and back into a **BigDecimal** which would lead to a different value being returned.

This was addressed upstream, and was fixed in JBoss Enterprise Application Platform 5.1.0 by changing the Seam dependency on JBoss-EL to 1.0\_02.CR5.

**ELSupport.coerceToType** now returns an input value when it is assignable to the given type.

#### JBPAPP-4007

**org.jboss.seam.transaction.EjbSynchronizations** did not comply with Java

specifications. As stated in [http://java.sun.com/blueprints/guidelines/designing\\_enterprise\\_applications/transaction\\_management/qe](http://java.sun.com/blueprints/guidelines/designing_enterprise_applications/transaction_management/qe) classes that implement `SessionSynchronization` may not have `TransactionsAttribute` `TransactionAttributeType.SUPPORTS`. `TransactionsAttributeType.SUPPORTS` has been replaced with `TransactionsAttributeType.REQUIRED`.

#### JBPAPP-4006

`org.jboss.seam.core.Interpolator` did not report exceptions and printed warnings with limited information. Exceptions are now reported, and warnings are more informative.

#### JBPAPP-4005

Seam JMS support did not work after failover to a slave node because the `topicConnection` field in the `SubscriptionRegistry` object became invalid when the connection to the master node failed. Subsequent calls to `SubscriptionRegistry.subscribe()` failed with `SpyJMSException`, and JMS subscriptions no longer worked even if the master node revived. This issue has been fixed.

#### JBPAPP-4004

A typographical error existed in the message logged by the `org.jboss.seam.async.AsynchronousExceptionHandler` when handling "Exception thrown while executing asynchronous call". "Exception" should be "Exception". This has been fixed.

#### JBPAPP-4003

Requirements have changed between JBoss Enterprise Application Platform 4.x and JBoss Enterprise Application Platform 5.x such that page-level `messages.properties` in the `ResourceLoader` must be stored in `META-INF/classes` or they will not work. The documentation is not explicit about this. This issue has been fixed.

#### JBPAPP-4002

`Initialization.redeploy` included code that created a new lock and then locked it immediately. This did not provide any level of protection, and could cause problems in debug mode. This has been fixed by removing the lock completely.

#### JBPAPP-3855

The SeamSpace `testCreateBlog` failed with a `NullPointerException` on IBM JDK 1.6. The `getIdentifier` method now behaves correctly on JDK 1.6.

#### JBPAPP-3769

In profiles other than `production`, `MockResponseStateManager` did not override `ResponseStateManager#isPostBack`. This meant that both Faces and non-Faces requests were evaluated as postbacks. A `isPostBack(FacesContext context)` method has been added into `org.jboss.seam.mock.MockResponseStateManager`, which overrides the old method and allows `NonFacesRequest` to recognize postback.

#### JBPAPP-3713

JAX-RS web services executed within an EJB transaction cannot use Seam HTTP authentication. HTTP requests to a web service protected by `AuthenticationFilter` split into two separate `ContextualHttpRequests`. In the second one, it is not possible to look up `EjbSynchronization`

beans, so

`Component.getInstance("org.jboss.seam.transaction.synchronizations", ScopeType.EVENT)` fails with `NoSuchEjbException`.

This issue has been fixed.

#### JBPAPP-3525

`s.tld` in `jboss-seam-ui.jar/MANIFEST.MF` contained attribute entries that were defined incorrectly according to the XML Schema for the JSP Taglibrary descriptor. This has been fixed with the upgrade to Richfaces 3.3.1.SP1.

#### JBPAPP-2384

The Seam Chatroom example threw an `EJBTransactionRolledbackException` when a user attempted to log in. This exception did not influence the application's functionality, and has been fixed with an update to JBoss Cache.

## 9.5. Security Fixed Issues

#### JBPAPP-4144

The `/status` servlet was accessible from `http://localhost:8080/status?full=true` without authentication. ([CVE-2008-3273](#))

This issue has been fixed and the servlet now requires authentication.

## 9.6. Application Server Fixed Issues

#### JBPAPP-4244

The parsing and deploying mechanism for `hibernate.cfg.xml` was unstable. This resulted in an inability to use regular Hibernate property names, because properties had to be mapped to the `org.jboss.hibernate.jmx.Hibernate` class. The original set of parsed key/value pairs is now inserted into the `o.j.h.hmx.Hibernate` objects via a new `setProperties(Set<BaseNamedElement>)` method. The `start()` method then builds the configuration from that set of properties.

## 9.7. Documentation Fixed Issues

#### JBPAPP-5036

Several typographical errors in the Seam Reference Guide have been corrected.

#### JBPAPP-4849

The section on *Running as a Service on Windows* in the *Installation Guide* listed incorrect long and short service names, and an incorrect location for the `service.bat` script. This has been corrected.

#### JBPAPP-4391

The `RuleBasedPermissionResolver` requirements for Drools 5 were out of date. This resulted in incorrect information being presented in the documentation. The out of date information has been replaced with up-to-date, accurate content.

### JBPAPP-4390

The Seam Reference Guide contained some duplicate information, which has been removed.

### JBPAPP-4389

The 'Charting' section in the Seam Reference Guide was missing information on `<p:chart>` tags. This has been corrected with a description; 'displays a chart already created in Java by a Seam component.'

### JBPAPP-4387

Seam reference documentation source code blocks did not have syntax highlighting, which made the source code difficult to read. This code has all been updated with the correct highlighting.

### JBPAPP-4386

The Seam Reference Guide was missing callout numbers in example code blocks. This made it difficult to connect the code and the accompanying explanatory notes. This has been fixed by introducing callouts.

### JBPAPP-3818

"Using Seam with JBoss Tools" in the *Seam Reference Guide* has not been revised for use with JBoss Enterprise Application Platform and should be considered obsolete.

The documentation has now been fixed and updated.

## 9.8. Messaging Fixed Issues

### JBPAPP-4135

`ServerConsumerEndpoint.localClose()` threw a `NullPointerException` during shutdown. This has been corrected with an updated version of JBoss Messaging.

### JBPAPP-3157

When unicode multibyte characters are used in a message Selector, JBoss Messaging throws a `TokenMgrError`.

This issue has been fixed, and multibyte characters are now allowed.

### JBPAPP-3003

When JBoss Transactions is upgraded from version 4.4.0 to version 4.6.1, the JBoss Messaging `XAResourceRecoveryTest` fails. The test is meant to simulate a failure during the commit process to prompt the Recovery Manager to recover the transaction, but with JBoss Transactions 4.6.1, the transaction is not recovered.

This issue has been fixed and a new test has been created to work with the change in transactions behaviour.

## 9.9. Web Services Fixed Issues

### JBPAPP-4501

Testing has revealed issues with the way Enterprise Application Platform 5.1.0 handles the transfer of many large files without MTOM enabled. Customers should note that MTOM should be enabled to

transfer large files, and this kind of service consumes a high amount of memory. However, if you choose not to use MTOM, you can implement the following to stop your Application Server crashing:

- Configure the limited listener for this service
- Allocate more memory and configure the right garbage collection (GC) policy for a Java Virtual Machine

### **JBPAPP-4243**

The web services context example did not work, and threw a **ClassCastException**. The example has been patched and now works as expected.

### **JBPAPP-3785**

When a method with an additional namespace for a header parameter was invoked after a method that did not have this additional namespace, the wrong namespace was used in the SOAP operation when the method was serialized. The issue has been fixed by correcting the way transitions are made between Java Objects and XML, so that the final SOAP Message is generated with correct namespaces.

### **JBPAPP-3019**

The doc/examples/jboss-web-services-examples context caused a number of exceptions to occur. This context error meant that the JBoss Web Services examples would not work correctly. The example code was modified as per [JBPAPP-2995](#), and the examples now run correctly.

### **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.

## **9.10. RESTEasy Fixed Issues**

### **JBPAPP-4061**

An **IndexOutOfBoundsException** occurred in the **POJOResourceFactory** because the interface was annotated instead of the implementation. Support has been added for annotated interfaces.

## **9.11. Clustering Fixed Issues**

### **JBPAPP-4887**

When an application that uses JPA or Hibernate is configured to use a clustered Hibernate second-level cache, it introduces an explicit dependency on the application server's CacheManager Service. This dependency is not recorded in the application server's service dependency system, so when the Platform is stopped, the CacheManager may shut down before the application. This causes a WARN message in the log when the application shuts down. This issue leads only to warnings in the error log and has been fixed with a HA Server Cache upgrade.

## **9.12. Cache Fixed Issues**

### **JBPAPP-4254**

ha-server-cache-jbc has been upgraded to 2.0.3.Final.



## 9.13. Connector Fixed Issues

### JBPAPP-4307

When using `SystemMemoryUsageLoadMetric`, `mod_cluster` prioritizes dispatching requests to a machine that is using system memory higher than other machines. The metric returned its 'load' as 'free memory' instead of the expected 'used memory'. This has been corrected and the error no longer occurs.

### MODCLUSTER-113

`org.jboss.modcluster.demo.servlet.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. This issue has been fixed and the non-existent servlet has been removed.

## 10. KNOWN ISSUES WITH THIS RELEASE

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

### 10.1. Unsupported JARs

The following libraries are included, but not supported, in this version of JBoss Enterprise Application Platform.

- `client/hornetq-core-client.jar`
- `client/hornetq-jms-client.jar`

The `hornetq` RPM is likewise unsupported in this release.

### 10.2. General Known Issues

#### JBPAPP-5110

The graphical installer allows the user to specify a custom JAAS security domain for securing consoles and invokers, but always secures the Tomcat console with the JAAS security domain "jmx-console", even if it does not exist. To use a custom JAAS security domain, specify the name in the "JMX Security" screen during installation. When the installer completes, edit the `jboss-as/server/$PROFILE/deploy/ROOT.war/WEB-INF/jboss-web.xml` file. In the `<security-domain>` element, replace the name "jmx-console" with the name of the security domain you used during installation. This secures the Tomcat console with the same custom JAAS security domain that secures the Admin console and any other consoles and invokers you elected during installation.

#### JBPAPP-5014

The web profile incorrectly includes a recovery setting for JBoss Messaging, which is not part of the web profile. This results in `ClassNotFoundException`s in `server.log`.

To work around this issue, remove the following lines from `jbossts-properties.xml`:

```
<property
name="com.arjuna.ats.jta.recovery.XAResourceRecovery.JBMESSAGING1"

value="org.jboss.jms.server.recovery.MessagingXAResourceRecovery;java:/DefaultJMSProvider"/>
```

### JBPAPP-4542

The locations of **jbossx.jar**, **jboss-javaee.jar**, **jboss-security-spi.jar**, and **jbossx-server.jar** have changed in this release due to a security fix. In this release they have been relocated to **jboss-as/lib/**. Any scripts that rely on the location of **jbossx.jar** should be updated to reflect this change.

### JBPAPP-4665

Resteasy-guice applications fail to deploy because of a `java.lang.SecurityException`. An error message similar to the following is displayed: `java.lang.SecurityException: class "org.jboss.resteasy.examples.guice.hello.DefaultGreeter$$FastClassByGuice$$70fd68d0"'s signer information does not match signer information of other classes in the same package"`

This occurs because the `cglib.jar` in JBoss Enterprise Application Platform 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 Application Platform 5.1.0 and can be downloaded from [Red Hat Support](#).

### JBPAPP-4456

Other agent-enabled tools may run into a class that contains a field, method, constructor, or other that was not loaded by Javassist. In this case, when the Advisor tries to manipulate that method, a **`javassist.NotFoundException`** is thrown. This exception should be ignored and the field considered non-existent.

### JBPAPP-4130

An **`org.jboss.ejb3.stateless.StatelessDelegateWrapper`** cannot be assigned to an **`org.jboss.system.ServiceMBean`** when creating a monitor with **`org.jboss.console.plugins.monitor.CreateThresholdMonitorServlet`**. The monitor is created as an attribute rather than a `<depends>`, so it fails to deploy upon restart. The workaround for this issue is to manually alter the created `*-service.xml` to allow the monitor to deploy correctly on restarting.

### JBPAPP-4041

The **`ServiceMetaDataParser.parseValueFactoryParameter()`** only considers the first child of the `<parameter>` element. Therefore if the `<null/>` child element is surrounded by carriage returns ('enter' or white space) the node is treated as a text value and the parameter is not correctly substituted later on. The following will cause an error:

```
<parameter>
  <null/>
</parameter>
```

The workaround is to ensure there is no whitespace in `<parameter>` elements, like so:

```
<parameter><null/></parameter>
```

### JBPAPP-3929

When **`java.sql.Date.valueOf`** attempts to parse dates of the format `yyyy-mm-dd`, the TCK test threw a **`java.lang.IllegalArgumentException`**. This was due to a regression in the latest Sun JVM, Sun JDK 1.6.0\_18-b07 (see [http://bugs.sun.com/bugdatabase/view\\_bug.do?bug\\_id=6898593](http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=6898593) for more information). The workaround for this issue is to downgrade to Sun JDK 1.6.0\_17-b04.

### JBPAPP-3766

Each time a `org.jboss.mail.MailService` is configured and bound to JNDI, the `SessionObjectFactories` properties are overwritten. This means that when multiple `MailService` configurations exist, all `MailServices` bound to JNDI will have the properties of the most recently configured `MailService` in their Session.

### JBPAPP-3308

In isolated deployments, a `ClassNotFoundException` is thrown when the application server tries to deserialize an `info` object associated with the `Timer`. This occurs because the wrong classloader (`threadContextClassLoader`) is used to deserialize the object.

### JBPAPP-3280

When accessing the admin console **WARN** messages are generated in the logs, stating "**Cannot get the process table information without native support**". These messages can be safely ignored. In a future release of the admin console these messages will be changed to **INFO**.

### JBPAPP-3133

A bug in JVM implementations means that the JVM may crash when an incomplete deployment is overwritten by a new version of the deployment during hot deployment. For example, a deployment may contain a formatting error in a deployment descriptor. When deployed, the error is encountered and the deployment fails. If a corrected deployment is copied over the top of the erroneous deployment to replace it, the JVM may crash during hot deployment of the new version. The workaround for this issue is to remove the old, incompletely deployed archive before copying the new corrected deployment into the `deploy` directory.

### 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-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 set as the default. Users should ensure that JDK 1.6 is set as the default Java version before attempting to start JBoss Enterprise Application Platform via the desktop icon.

### 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-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-2598

Once the workaround for the [JBAS-7049](#) issue is applied a new issue presents itself. A server running the security manager using OpenJDK 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-2027

The server manager does not function correctly when OpenJDK 6 is used because a `NullPointerException` check is missing in OpenJDK 6. The workaround is to comment out the `java.security.debug` statement in the `imports/server-config.xml` file.

### JBPAPP-2027

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.

## 10.3. Installer Known Issues

### JBPAPP-5116

When a custom JAAS security domain is created during the graphical installation process, the custom JAAS security domain continues to use `jmx-console-users.properties` and `jmx-console-roles.properties` instead of creating its own named users and roles properties files.

### JBPAPP-4262

After all files have been extracted during installation on Solaris 10 (both 32-bit and 64-bit architectures), the console displays an unnecessary request for a password. Installation will not proceed until the user presses **Enter**.

## 10.4. Hibernate Known Issues

### JBPAPP-4926

Cascading tables containing auto-incremented primary keys were not saving correctly because tables were not being processed in the correct order in the save queue.

One table (A) has an assigned primary key. A second table (B) is linked to Table A, has cascading enabled, and uses an auto-incremented primary key. When attempting to save Table B, Hibernate detects that Table A should be saved first and adds it to a save queue. Hibernate then attempts to save Table B immediately. This save operation fails, because to succeed Table B must obtain a primary key reference from Table A, which is null while it remains in the save queue.

To work around this issue, disable table cascade and ensure that the table with the assigned primary key is saved before attempting to save a table with an auto-incremented primary key.

### JBPAPP-4895

When a **refresh()** method is invoked immediately prior to an **insert()**, and second-level caching is enabled, the entity is inserted into the second-level cache. If the **refresh()** does not commit successfully, however, the cached data will not be automatically evicted. This occurs because **refresh()** does not track entity state. Since the **refresh()** operation is usually used for generated properties, one workaround for this issue is to use the **@Generated** annotation. Another workaround is to manually evict the cache entry.

### JBPAPP-4738

The updated JDBC 3.0 driver for MS SQL Server 2008 now supports the following data types:

- time
- date
- datetime2
- datetimeoffset

For more information about these SQL Server types, see [Date and Time Data Types and Functions \(Transact-SQL\)](#).

This type change causes the **org.hibernate.test.hql.ASTParserLoadingTest** test and the **org.hibernate.test.stateless.StatelessSessionTest** test to fail. The workaround for this issue is to define a new dialect, like so:

```
public class SQLServer2008Dialect extends SQLServerDialect
{
    public SQLServer2008Dialect()
    {
        registerColumnType( Types.DATE, "date" );
        registerColumnType( Types.TIME, "time" );
        registerColumnType( Types.TIMESTAMP, "datetime2" );
        registerFunction( "current_timestamp",
                        new NoArgSQLFunction("current_timestamp",
Hibernate.TIMESTAMP, false) );
    }
}
```

### JBPAPP-4731

When an insert operation was performed using **jconn3.jar**, null bit values were converted to **0**, so no exception was thrown. Sybase does not allow a null value for the bit datatype, so null bit values should result in exceptions.

To work around this issue within Hibernate and persist the value as a null as intended, map type to **org.hibernate.test.where.NumericTrueFalseType** instead of **boolean**, like so:

```
type="org.hibernate.test.where.NumericTrueFalseType"
```

### JBPAPP-4334

A bug in jConnect means that the **FetchingScrollableResultsImpl.isResultSetEmpty()** method returns the following to determine if a ResultSet is empty:

```
currentPosition == 0 && ! getResultSet().isBeforeFirst() && !
getResultSet().isAfterLast();
```

When the ResultSet is empty, **FetchingScrollableResultsImpl.isResultSetEmpty()** should return false but Sybase JDBC returns true. There is currently no workaround for this issue.

### JBPAPP-4175

When Hibernate executes a cacheable query using a **ResultTransformer**, it will attempt to cache the results after applying the **ResultTransformer**. However, the data may be modified so that Hibernate cannot read it. In this case, a **ClassCastException** will occur when attempting to cache the results.

### JBPAPP-3913

From Oracle 11g R2 (RAC), the behavior of the CREATE TABLE statement changed such that when creating a conventional table in a database created with the default options, the initial segment is not created until the first row is inserted into the table (see [http://download.oracle.com/docs/cd/E11882\\_01/server.112/e10595/tables002.htm#ADMIN13319](http://download.oracle.com/docs/cd/E11882_01/server.112/e10595/tables002.htm#ADMIN13319) for details).

As a result of this change, if the ID generator class is **sequence-identity**, sequences created as default start with 2 or 4 instead of 1. To work around this issue:

- Use a different ID generator class, or
- Disable deferred segment creation on Oracle by setting the initialization parameter **DEFERRED\_SEGMENT\_CREATION** to **FALSE**. The CREATE TABLE statement has two new clauses (SEGMENT CREATION DEFERRED and SEGMENT CREATION IMMEDIATE), which override the value of the **DEFERRED\_SEGMENT\_CREATION** parameter.

### JBPAPP-3911

In Oracle 11g R2 (both RAC and standalone), a complex query with **LockMode.UPGRADE** (that is, "for update") may cause a "No more data to read from socket" error. This is not a Hibernate bug, and is related to database configuration. See [Bug Hunting](#) for more information. The workaround for this issue is to avoid using **LockMode.UPGRADE** on such queries.

### JBPAPP-3483

Hibernate does not currently log the execution time for each query. This is expected in future versions of JBoss Enterprise Application Platform.

### JBPAPP-3284

This is an issue with cglib, which is deprecated in this release of JBoss Enterprise Application Platform. See [http://sourceforge.net/tracker/index.php?func=detail&aid=2796998&group\\_id=56933&atid=482368](http://sourceforge.net/tracker/index.php?func=detail&aid=2796998&group_id=56933&atid=482368) for more details. cglib removes field annotations when transforming a class with **TransformingClassGenerator** because of a problem with the **visitField** method. It is possible to work around this issue by annotating getters instead of fields, but this may not be possible for heavy applications ported to JBoss Enterprise Application Platform 5.

### JBPAPP-3223

Hibernate does not currently support tuple syntax in HQL or Criteria on databases which do not support tuple syntax. For example, if a database does not support tuple syntax:

```
where (a,b) in ( (1,2), (3,4) )
```

Hibernate should translate to:

```
where ( (a=1 AND b=2) OR ( (a=3 AND b=4) )
```

There is currently no workaround for this issue except to avoid using this syntax query on databases that do not support tuple syntax.

### JBPAPP-3075

If a database reserved keyword is used as a property name with a Hibernate Validator annotation (for example, `@Min` or `@Max`), it will cause exceptions in `SchemaExport`, even if you specify a column name. This is because Hibernate ignores the name specified. The workaround is to map the property name to something that is not a database reserved keyword with the `@Column` annotation. The fix for this issue is expected in Hibernate 4.

### JBPAPP-3069

The `QueryByExampleTest.testJunctionNotExpressionQBE` test fails in Sybase because `ansinull` is set to off by default. This test builds a disjunction predicate such as `( OR^ (ex) (NOT ex) )`. This should match everything in the database, but because ANSI SQL evaluates all comparisons involving NULL values as UNKNOWN, not all matches are returned. To work around this problem, append the following string to the JDBC URL:

```
?SQLINITSTRING=set ansinull on
```

If this is not possible, an alternative is to execute the following Java code (or similar) after obtaining a Hibernate session `s`:

```
s.connection().createStatement().execute("set ansinull on");
```

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

### 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-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-2971

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 Application Platform is signed, and the cglib-instrumented proxy uses the **cglib.jar** signer information instead of the signer information of the application target class.

**cglib** is deprecated in the 5.1 release of JBoss Enterprise Application Platform.

### 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-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. One workaround for this issue is to use the **jconn3.jar** with **DYNAMIC\_PREPARE=true** set in the Hibernate configuration file.

■



```
<property name="connection.url">jdbc:sybase:Tds:aurum:1503/masterDb?
DYNAMIC_PREPARE=true</property>
```

Another workaround is to use the `jconn4.jar`.

### 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 version 9.7 driver is used with progressive streaming (the default), operations on `Blob` and `Clob` locators fail. There are two possible workarounds to this issue:

- Create a property file named `DB2JccConfiguration.properties`, either on your class path or in a JAR on your class path. Add the following line to this file to disable progressive streaming on DB2:

```
db2.jcc.override.progressiveStreaming=2
```

- Use the DB2 version 9.1 driver instead of DB2 version 9.7.

### 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-1895

The Hibernate tests `JoinTest.java` and `QueryAndSQLTest.java` fail when testing queries with untyped parameters for DB2, which does not support untyped parameters. You can work around this issue by modifying the queries so that the parameters are cast to an appropriate data type, as described on the JIRA.

### 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-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 `SySQLException` 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-1230

When a `DetachedCriteria` is used as a subquery, the generated SQL contains a column alias in the subquery. On Sybase, a `SySQLException` 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 ` ` and persists a string containing the character `\u0000`. PostgreSQL throws an exception because it does not allow the character `\u0000` embedded in a string. There is currently no workaround for persisting `\u0000` in a `char` column using PostgreSQL.

To persist a NULL for an uninitialized `char` property instead of `\u0000`, use `java.lang.Character` 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`

## 10.5. JBoss Messaging Known Issues

### JBPAPP-5124

When using Sybase database with the JDBC driver Sybase jConnect JDBC driver v7 (Build 26502), a **MaxParams** attribute in the **sybase-persistence-service.xml** configuration file cannot be set higher than **481** due to a limitation of the **PreparedStatement** class in this driver. Unexpected failures can occur when the **MaxParams** attribute is set to a value higher than **481**. To avoid this issue, set **MaxParams** to a smaller value than **481**.

### JBPAPP-4668 (previously JBPAPP-3965)

Two JBoss Messaging Test Suite tests fail on Oracle 11g R1, R2 and RAC with the latest JDBC driver, version 11.2.0.1.0:

- QueueManagementTest.testDestroyDestinationProgrammatically
- QueueManagementTest.testDestroyDestinationProgrammaticallyWithParams

These tests use a large value for the **fullSize** queue configuration parameter, which is passed to the **setFetchSize** method on the **java.sql.PreparedStatement**. A problem with the JDBC driver means that more than the usual amount of memory is consumed when **executeQuery()** is called, which results in a **java.lang.OutOfMemoryError**, causing the test to fail.

### JBPAPP-3904

Oracle JDBC driver version 11.1.0.7.0 causes the JBoss Messaging Test Suite to fail with a **SQLException** ("Bigger type length than Maximum") on Oracle 11g R1. This is caused by a regression in Oracle JDBC driver 11.1.0.7.0. We recommend Oracle JDBC driver version 11.2.0.1.0 for use with Oracle 11g R1, Oracle 11g R2, Oracle RAC 11g R1 and Oracle RAC 11g R2.

### JBPAPP-3352

If a message-driven bean is deployed with the default settings ((**useDLQ=true**, **DLQMaxResent=5**) and message redelivery is prompted, messages remain in the queue in a "delivering" state even after the message is delivered to the dead letter queue. The workaround for this issue is to disable the use of the dead letter queue: **useDLQ=false**.

### JBPAPP-2033

**EnableMessageCounters** on the **jboss.messaging.ServerPeer** JMX interface, cannot be set to **true**. A workaround to enable message counters is to invoke the **enableMessageCounters()** operation on the same JMX interface.

## 10.6. JBoss Web Services Known Issues

### JBPAPP-5021

The **jbossws-cxf-installer/docs/Install.txt** file in the JBoss WS CXF installer incorrectly calls JBoss WS CXF a Technology Preview. The text of **Install.txt** should be as follows:

```
Simply run "ant" from the jbossws-cxf-installer directory
extracted from the jbossws-cxf-installer.zip into your JBOSS_HOME for
your JBoss Enterprise Platform.
```

### JBPAPP-4561

With JBoss Web Services Native, when MTOM is enabled and the DataHandler getter signature of a return-type class does not match the JavaBean getter signature, the response will be sent as an inline string instead of using XOP. This occurs because scanning for attachment annotations is based on the JavaBean getter signature.

#### JBPAPP-4506

When services are deployed to JBoss Web Services Native, any XML Schema Declaration (XSD) imports with relative URLs are rewritten as absolute URLs relative to the WSDL service contract. If an imported XSD imports a second XSD using a relative path, this path is incorrectly rewritten to be relative to the XSD instead of the WSDL service contract. The workaround for this issue is to move all XSD and WSDL files into the same directory and change all the imports.

#### 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.

### 10.7. Remoting Known Issues

#### JBPAPP-3392

EJB3 clients do not reuse existing socket connections on subsequent invocations; a new connection is created per invocation.

### 10.8. RESTEasy Known Issues

#### JBPAPP-5038

The `jettison.jar` file is not included in the `jboss-eap-5.1/resteasy/lib` directory of `jboss-eap-noauth-5.1.0.zip`. To work around this issue, use the `jettison.jar` file included in the Seam distribution, `jboss-eap-5.1/seam/lib/jettison.jar`.

#### JBPAPP-2993

The `spring-hibernate-contacts` example fails with the error `java.lang.IllegalArgumentException: object is not an instance of declaring class`. This occurs because the `getContactById(@PathParam("id") Long id)` method in the `ContactServiceImpl` class is missing the `@GET` annotation.

### 10.9. Seam Known Issues

#### JBPAPP-4808

Seam applications backed by POJO Cache with field-level session replication turned on can fail with an **InstantiationException**. This is due to architectural features of POJO Cache, which requires specific functionality and behavior from clients in order to provide field-level session replication.

A workaround exists. Add the following code to the JSF configuration (`faces-config.xml`)

```
<context-param>  
  <param-name>javax.faces.STATE_SAVING_METHOD</param-name>
```

```
<param-value>client</param-value>
</context-param>>
```

### JBPAPP-4508

When uploading files with `<s:fileUpload>` inside `<h:dataTable>`, errors occur which lead to identical filenames and incorrect content. This occurs because the local value is not returned by the `getLocalValue()` method.

### JBPAPP-4231

A `NullPointerException` occurs when undeploying or uninstalling Seam examples. It does not cause any application to shutdown, but this error should not occur. The issue is seen in the nestedbooking, dvdstore, itext and excel examples, but does not appear in ui example.

### JBPAPP-3546

The iText example contains a "Programming Skills" section. Items selected in the multi-select list are supposed to be included in the generated PDF. Due to a bug in iText, when multiple items are selected, only the first item is included in the generated PDF.

### 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.

## 10.10. EJB3 Known Issues

### JBPAPP-4308

The following classes have been added to the `jboss-ejb3-deployer.jar`:

```
org/jboss/ejb3/iiop/
org/jboss/ejb3/iiop/BeanCorbaServant.class
org/jboss/ejb3/iiop/EJB3IIOPWebClassLoader.class
org/jboss/ejb3/iiop/IORFactory$1.class
org/jboss/ejb3/iiop/IORFactory$2.class
org/jboss/ejb3/iiop/IORFactory.class
org/jboss/as/ejb3/deployers/IORDeployer.class
```

However, the `@Remote*` annotations in Enterprise Application Platform 'web' configuration and Enterprise Web Platform throw a `NullPointerException`. This is because `jboss-iiop.jar` is not included in the web configuration, which is essentially the Enterprise Web Platform.

### JBPAPP-4692

The deployment of a persistence unit into an EAR will fail when the unit is outside of the EAR and the bean attempting to inject the persistence unit is within the EAR. The injection fails because the persistence unit cannot be found. This is expected behavior of the EJB3 spec. For strict EJB3-spec compliance, the persistence unit should be packaged within the EAR.

A JBoss-specific behavior allows persistence units to exist outside EARs. This is configured in the file `deployers/ejb3.deployer/META-INF/jpa-deployer-jboss-beans.xml` under a JBoss AS server profile. The relevant section is:

```
<!--
    Can be DefaultPersistenceUnitDependencyResolver for spec compliant
    resolving,
    InterApplicationPersistenceUnitDependencyResolver for resolving
    beyond EARs,
    or DynamicPersistencePersistenceUnitDependencyResolver which allows
    configuration via JMX.
-->
<bean name="PersistenceUnitDependencyResolver"
class="org.jboss.jpa.resolvers.DynamicPersistenceUnitDependencyResolver"
/>>
```

By default, the **DynamicPersistenceUnitDependencyResolver**

(<https://svn.jboss.org/repos/jbossas/projects/jpa/trunk/deployers/src/main/java/org/jboss/jpa/resolvers/Dy>) is used, which allows the spec-compliant behavior to be controlled through the MBean in the JMX Console. The spec-noncompliant JBoss variant search strategy can be found at <https://svn.jboss.org/repos/jbossas/projects/jpa/trunk/deployers/src/main/java/org/jboss/jpa/resolvers/str>

## 10.11. Clustering Known Issues

### JBPAPP-3795

When an exploded archive that contains a 0-byte file (among other files) is deployed, a `NullPointerException` is thrown on the remote node. This aborts the farm deployment process. No workaround currently exists.

## 10.12. Connector Known Issues

### JBPAPP-5048

The `mod_cluster` manager module's status page is not updated upon worker node failover. This means that the worker is listed as active and available after it has failed.

### JBPAPP-4767

The following error log messages are produced when the client unexpectedly closes the connection in AJP:

```
failed [error] [client <ip>] proxy: error processing body
[error] proxy: dialog to 192.168.0.1:8009 (192.168.0.1)
```

These errors should be logged as warn or debug rather than error.

### 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.

## A. REVISION HISTORY

<b>Revision 5.1.0-111.400</b> Rebuild with publican 4.0.0	<b>2013-10-31</b>	<b>Rüdiger Landmann</b>
<b>Revision 5.1.0-111</b> Rebuild for Publican 3.0	<b>2012-07-18</b>	<b>Anthony Towns</b>
<b>Revision 5.1.0-1</b> Release note additions for RHEL6 release.	<b>Wed Nov 10 2010</b>	<b>Laura Bailey</b>
<b>Revision 5.1.0-0</b> Final release notes for EAP 5.1 GA.	<b>Fri Oct 15 2010</b>	<b>Laura Bailey</b>