



JBoss Enterprise Application Platform 6.1

6.1.0 Release Notes

**New Features, Known Issues, and Support Information for JBoss Enterprise
Application Platform 6.1.0**

Edition 1

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6.1.0

Edition 1

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Abstract

Release notes for JBoss Enterprise Application Platform 6.1.0.

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1. INTRODUCTION

Welcome to JBoss Enterprise Application Platform 6. As you become familiar with the newest version of JBoss Enterprise Application Platform, these Release Notes provide you with information about new features, newly-resolved issues, and known issues. Use this document in conjunction with the entire JBoss Enterprise Application Platform 6 suite of documentation, available at <http://docs.redhat.com/>.



IMPORTANT

The changes documented in these release notes are relative to the previous release, 6.0.1. When upgrading from 6.0.0 please also refer to the 6.0.1 release notes for a complete list of changes.

1.1. Providing Feedback

To provide feedback on this document, file a bug at <https://bugzilla.redhat.com>, using product **JBoss Enterprise Application Platform**, version **6.1.0**, and component **documentation-6.1.0_Release_Notes**. For your convenience, you can use the following URL, which fills in the product, version, and component automatically: https://bugzilla.redhat.com/enter_bug.cgi?component=doc%20-%20release%20notes&product=JBoss%20Enterprise%20Application%20Platform%206&version=6.1.0

1.2. Overview

JBoss Enterprise Application Platform 6 is Red Hat's response to significant changes in the way organizations develop and deploy enterprise applications. As organizations seek to lower operational costs and reduce time to market for new applications, JBoss Enterprise Application Platform 6 has been rebuilt for a vision of the future, boasting an innovative modular, cloudy-ready architecture, powerful management and automation, and world class developer productivity.

JBoss Enterprise Application Platform 6 is Java EE 6 certified and features powerful yet flexible management, improved performance and scalability, and many new features to improve developer productivity. All with Red Hat's market-leading reputation for certification and support, ensuring your administration and development needs continue to drive forward into the future and beyond.

2. NEW FEATURES

The following new features have been added in JBoss Enterprise Application Platform 6.1.0.

Global Valves in JBoss Web

JBoss Enterprise Application Platform 5 offered the capability to configure a global valve for the web container. In 6.0 it was only possible to configure a valve on a single application basis. For JBoss Enterprise Application Platform 6.1 the global valve capability has been restored.

Improved Initial Context options for EJB Clients

JBoss Enterprise Application Platform 6.1 provides a method to configure an InitialContext with a Map and create an EjbClientContext scoped to this particular InitialContext. The method also enables this configuration without dependencies on JBoss specific classes.

Passing Additional Information to the Authorization Module

In JBoss Enterprise Application Platform 6.0 it was not possible to pass additional information to the authorization module, as Java EE Interceptors were not called until after the container interceptors, including the login module, were called. JBoss Enterprise Application Platform 6.1 has added the capability to inject Java EE Interceptors into the container interceptor chain.

Security Context Propagation and User Switching

JBoss Enterprise Application Platform 6.1 is providing Quickstarts to demonstrate to following capabilities:

- **ejb-security-interceptors** - Demonstrates how interceptors can be used to switch the identity for EJB calls on a call by call basis.
- **ejb-security-interceptors** - Demonstrates how Interceptors can now be injected into the server's interceptor chain to propagate security contexts from one EJB to another, and switch users of an EJB.

Enhanced System Property Substitution

JBoss Enterprise Application Platform 6.0.0 included property substitution as a capability of the attributes of the configuration, but the number of properties that were supported was limited. For JBoss Enterprise Application Platform 6.1 the number of attributes enabled for substitution has increased.

Deterministic Column Names with Hibernate

In earlier versions Hibernate was not using a deterministic algorithm to generate column aliases, limiting the benefit derived from the database cache. Aliases are now consistently named.

HornetQ In-Memory Message Replication

HornetQ now offers High Availability via in memory message replication in addition to the existing shared storage option.

Deployment Overlays

JBoss EAP now offers the capability to override the deployment descriptors provided with a deployment with alternative descriptors at deploy time.

3. FEATURES PROVIDED AS TECH PREVIEW ONLY

The following configurations and features are known to have issues and are provided as tech previews only. They are not supported in a production environment.

HornetQ discovery via JGroups

HornetQ now offers dynamic discovery of server connection settings via UDP and JGroups.

WS-Trust/STS with JBoss Web Services

JBoss Web Services now exposes WS-Trust/STS capabilities from the underlying CXF implementation.

JBoss CLI Silent Mode

A 'Silent Mode' has been added to the CommandContext API for processes embedding the CLI.

Adding Modules with JBoss CLI

The CLI offers a new commands to add and remove modules.

Syslog Handler Configuration

EAP now provides a handler and configuration for the syslog protocol.

New Hibernate Batch Loading Algorithms

Hibernate has added two batch loading algorithms to the existing Legacy algorithm, Dynamic and Padded.

Hibernate - Improved Second Level Caching of Object References for Non-Mutable Data

Hibernate - Improved and Expanded Bytecode Enhancement Support

WS-AT/XA Bridge

The WS-AT/XA transaction bridge functionality is provided as a technology preview only, and is not supported in a production environment.

RestEasy validation with the Hibernate Validator

RestEasy now delivers a validation provider to support the Hibernate Validator delivered with JBoss Enterprise Application Platform 6.

Restored ServiceMBean helper classes

Module `org.jboss.as.system-jmx` has been introduced to restore helper classes available in earlier versions of JBoss Enterprise Application Platform that assist users in creating MBeans.

Multi-JSF

This feature enables a user to replace the JSF implementation provided with EAP with a user supplied JSF implementation.

JDBC Store for Transactions

JBoss Transactions can now be configured to use a JDBC database as it's store. This is enabled in the Transactions Subsystem by setting the following two attributes using the CLI tool.

1. Set `use-jdbc-store` to `true`.

```
/subsystem=transactions:write-attribute(name=use-jdbc-store, value=true)
```

2. Set `jdbc-store-datasource` to the JNDI name for the data source to use.

```
/subsystem=transactions:write-attribute(name=jdbc-store-datasource, value=java:jboss/datasources/TransDS)
```

The complete set of attributes is provided below.

Table 1. Transactions JDBC Store Properties

Property	Description
<code>use-jdbc-store</code>	Set this to "true" to enable the JDBC store for transactions.
<code>jdbc-store-datasource</code>	The JNDI name of the JDBC datasource used for storage.
<code>jdbc-action-store-drop-table</code>	Drop and recreate the action store tables at launch. Optional, defaults to "false".
<code>jdbc-action-store-table-prefix</code>	The prefix for the action store table names. Optional.
<code>jdbc-communication-store-drop-table</code>	Drop and recreate the communication store tables at launch. Optional, defaults to "false".
<code>jdbc-communication-store-table-prefix</code>	The prefix for the communication store table names. Optional.
<code>jdbc-state-store-drop-table</code>	Drop and recreate the state store tables at launch. Optional, defaults to "false".
<code>jdbc-state-store-table-prefix</code>	The prefix for the state store table names. Optional.

4. UNSUPPORTED FEATURES

Some configurations that worked for JBoss Enterprise Application Platform 5 are no longer supported. Please review them.

Infinispan API

The direct use of the Infinispan API is not supported in JBoss Enterprise Application Platform 6. Infinispan is used as an implementation detail for various clustering technologies internal to JBoss Enterprise Application Platform. Direct use of the Infinispan API requires a subscription to JBoss Data Grid.

IPv6 Limitations of JDK 6

The following IPv6 limitations are caused by JDK 6, and are not defects in JBoss Enterprise Application Platform 6.

1. On Microsoft Windows Server, JDK 6 has only a partial IPv6 implementation. This implementation is not sufficient to run JBoss Enterprise Application Platform 6. Full IPv6 support on Microsoft Windows Server requires JDK 7.

2. On Red Hat Enterprise Linux, a bug in Oracle JDK 6 means that any address specified on a client (the network point establishing the connection) which contains a `zone-id` will fail. To use a `zone-id`, either upgrade to JDK 7, or use IcedTea/OpenJDK 6, which is available for Red Hat Enterprise Linux, and does not exhibit this bug. For more information about the bug, refer to http://bugs.sun.com/bugdatabase/view_bug.do?bug_id=6800096 and <https://issues.jboss.org/browse/JBPAPP-8833>.

JPA 2.0 Context Propagation Outside of a JTA Transaction

The propagation of Extended Persistence Contexts (XPC) was not taking into account the existence of a transaction, with the XPC always being propagated. That behaviour is not in accordance with the JPA 2.0 specification. The handling of XPC has been modified so that when there is no transaction active the XPC's propagation is ignored and the bean being invoked has its own Persistence Context instead of the XPC.

If your application expects extended persistence contexts to be propagated outside of JTA transactions, you need to consider if your application needs to be modified. Refer to the JBoss Enterprise Application Platform 6 Migration Guide for instructions on updating your application.

JBoss Enterprise Application Platform 5 provided a system property (`JBPAPP-923.alwaysPropagate`) to enable this behaviour. This system property is not available in JBoss Enterprise Application Platform 6.

For more information about this decision, refer to <https://issues.jboss.org/browse/AS7-1663>.

PicketLink IDM

The PicketLink IDM (Identity Management) is not supported in JBoss Enterprise Application Platform 6.

PicketLink STS

PicketLink STS (Security Token Service) is not supported in JBoss Enterprise Application Platform 6.

Tanuki Service Wrapper

The Tanuki Service Wrapper is not supported with JBoss Enterprise Application Platform 6. More information can be found at <https://issues.jboss.org/browse/JBPAPP-8651>.

XA Recovery on Microsoft SQL Server 2008

XA recovery does not work with Microsoft SQL Server 2008 R1. This feature does work with Microsoft SQL Server 2008 R2 SP2. For more information refer to the following URLs:

- <https://issues.jboss.org/browse/JBPAPP-8983>
- https://bugzilla.redhat.com/show_bug.cgi?id=901254
- <https://community.jboss.org/thread/145358>

XA Recovery on MySQL

The MySQL JDBC driver does not implement XA recovery properly. For more information refer to <https://issues.jboss.org/browse/JBPAPP-2576>.

JBoss OSGi

JBoss OSGi, an implementation of the OSGi specification, has been demoted from Technology Preview to Unsupported. For additional information refer to <https://access.redhat.com/site/solutions/362814>.

NIO Connectors on HornetQ

NIO connectors are not supported on JBoss EAP 6.

5. COMPONENTS

The JBoss Enterprise Application Platform 6 component matrix is available at the following location: <https://access.redhat.com/knowledge/articles/112673>.

6. CHANGES IN THIS RELEASE

6.1. Bug Fixes

Apache Server (httpd) and Connectors

900363 - JK Status Manager does not work

Apache mod_jk includes a status manager API. When operations were run with it, the changes were not applied, whether initiated via the API or the JK Status Manager web interface. This was due to an error with shared memory synchronization. The root cause has now been fixed so that operations using the status manager now perform as expected.

Clustering

900392 - Singleton Service could fail with "IllegalStateException: JBAS010350: Expected result from singleton provider only, but instead received 0 results"

The `SingletonService` sometimes failed with the following output in the log:

```
IllegalStateException: JBAS010350: Expected result from singleton provider only, but instead received 0 results
```

The error occurred in the `getValueRef` method and was triggered when a view change occurred because the old master node was stopping and the new one was still starting. To resolve this, `getValueRef` has been changed to retry if no results are returned. The `SingletonService` now performs as expected.

920367 - ClusteredSingleSignOn ClassCastException with non-distributable apps

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=920367

901028 - CLONE AS7-5688 ISPN000136: Execution error: java.lang.NullPointerException -> JBAS018079: Failed to passivate session

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=901028

947420 - Unable to acquire lock after [0 milliseconds] with session passivation on

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=947420

Consoles

900849 - EAP6 CLI error when data is over 64k

Any CLI command which returned a String that was over 65535 characters in length would fail with the following error:

```
Communication error: java.util.concurrent.ExecutionException: Operation failed
```

This was caused by the use of the `java.io.DataOutput.writeUTF()` method in the JBoss DMR library. This method throws a `UTFDataFormatException` if the string being processed is over 65535 characters in length. The JBoss DMR library was been updated to use an alternative technique to correctly process strings over this length. Any CLI command which returns a string over 65535 characters in length now performs as expected.

EJB

957171 - Client does not retry the invocation if a node is shutting down or undeploying and an EJB invocation reach the node in that state

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=957171

955506 - Connections not registered correctly for inner TX when Outer TX is suspended,

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=955506

928922 - [AS7-6526] It is difficult to identify an EJB Timer with the logged timer-id, especially if it is non persistent

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=928922

901203 - Remote EJB invocations are read/written out one byte at a time

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=901203

HornetQ

900359 - CLONE - Create subsystem for JMS bridge

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=900359

901137 - Server cannot be shutdown gracefully when reconnect-attempts is set to -1

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=901137

901177 - HornetQ does not delete message from queue when the message is rolled back and the DLQ is not present

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=901177

913507 - OutOfMemory in SpecJMS2007 satellite driver

When NIO was enabled on a connector and a very high number of threads was active, an **OutOfMemory** error could occur. This occurred because `NioWorker` was not shutdown correctly and so the threads and the memory they were using was not released. The underlying problem with

thread handling has been corrected, reducing the risk of an **OutOfMemory** error.

It is recommended that the parameter "use-nio-global-worker-pool" be enabled to minimize the risk of an **OutOfMemory** error. An example connector configuration is as follows:

```
<netty-connector name="netty" socket-binding="messaging">
  <param key="use-nio" value="true"/>
  <param key="use-nio-global-worker-pool" value="true"/>
</netty-connector>
```

NIO connectors are not supported on JBoss EAP 6.

919446 - Replicated journal - Running out of disk space after continuous backup/live switching.

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=919446

JSF

957838 - An exception "java.io.NotActiveException: Fields were never written" occurs when FacesMessage object is serialized in JBoss EAP 6.

The deserialization of **FacesMessage** objects would throw an exception (`java.io.NotActiveException`) in some circumstances. This occurred because the **ObjectOutputStream**'s `defaultWriteObject()` or `writeFields()` methods were not invoked during serialization as required by the JSF specification. These methods are now correctly called during serialization and the deserialization of **FacesMessage** objects now works as expected.

901266 - @PreDestroy not called on view scoped managed bean

The memory used by JSF **ViewScoped** beans was not being reclaimed in some circumstances, resulting in the memory used by the application server increasing over time (a "memory leak"). This was because the `@PreDestroy` method of these beans was not being called when their sessions expired. The JavaServer Faces implementation in JBoss Enterprise Application Platform 6 has been updated to Mojarra 2.1.16 which resolves this issue. When session expiration occurs, the `@PreDestroy` method each of **ViewScoped** managed bean is now invoked correctly and the resources allocated to each bean is reclaimed.

Scripts and Commands

900518 - Jdr script utility isn't able to connect to localhost:9990 at all

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=900518

Security

910322 - Cannot add security role to security-setting using CLI

When adding a `security-role` using the CLI or API, it was required that the user specify both the roles that it should have, and all the roles that it should not. This was because the `:add` operation for this resource did not have default values for these parameters. These parameters now default to `false`. Adding a role now only requires that you specify the roles that the security-role must have by setting them to `true`. All other roles default to `false`.

Web

901061 - Need similar "DeleteWorkDirOnContextDestroy" configuration in EAP 6 Web Subsystem

JBoss Enterprise Application Platform 6 did not recompile source JSPs on redeployment unless they were newer than the associated java or class files. Earlier versions of JBoss Enterprise Application Platform 6 did not contain the code to remove the java and class files on undeployment. This meant that if a user attempted to restore sources from an older version of a webapp, the `.java` and `.class` files were not removed which prevented the JSPs from being recompiled. The corresponding code has now been added to JBoss Enterprise Application Platform 6 and can be activated through the system property `org.jboss.as.web.deployment.DELETE_WORK_DIR_ONCONTEXTDESTROY`. The default for this property is `false`. JBoss Enterprise Application Platform 6 users can now use this property to remove `.java` and `.class` files to ensure that JSP sources are recompiled.

905165 - Method expression parameters causes NPE/MethodNotFoundException

An Expression Language (EL) method in a JSF page with any arguments set to the value of `null` cause an exception (`NullPointerException`) to be thrown when invoked. This occurred because the JBoss Web EL parser did not handle the case of an argument being a null value. JBoss Web has been updated to properly handle null values in method expressions. Invoking an EL methods with a null parameter now performs as expected.

6.2. Known Issues

Apache Server (httpd) and Connectors

900620 - APR natives are not being loaded if UAC is in place (Windows Server 2008 R2)

On Windows servers, Apache portable runtime (APR) libraries will fail to load unless a user with administration rights is being used with User Account Control (UAC) disabled.

Clustering

901164 - Stale session data received after failover, sessions are lost

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=901164

900707 - Property substitution breaks when the string "localhost" is used as part of the default value

Property substitution does not work correctly when the string `localhost` was used as part of a default value in the JGroups subsystem configuration. Property substitution is a feature provided for JBoss Enterprise Application Platform 6 subsystems. However not all subsystems have it enabled, and some subsystems (like JGroups) actually do some of their own substitution. However this behaviour is not standardised and differs from the supported subsystem properties. Red Hat recommends not to use property substitution with the JGroups subsystem until this issue is resolved.

900378 - CDI beans with SET replication trigger are not replicating

Due to a bug in the Weld component, the `setAttribute` method is not called correctly. This causes CDI beans with the `SET` replication trigger to fail to be replicated. The workaround is to use the `SET_AND_NON_PRIMITIVE_GET` trigger for these beans. This will be fixed in a future release.

900549 - transient "WeldListener: java.lang.NullPointerException" with clustering and session replication

A `WeldListener: java.lang.NullPointerException` is thrown occasionally. The client receives a HTTP response `503`, along with the exception text. The cause of this bug is under investigation.

900483 - CLONE - Stale session data received when using DIST SYNC on node shutdown

During testing, a few cases showed that stale session data was received when a node shut down and `DIST SYNC` or `DIST ASYNC` cache mode was used. This issue is still under investigation.

959753 - DIST SYNC: Service `jboss.infinispan.web.default-host/XY` won't start after node restart with "Initial state transfer timed out"

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=959753

HornetQ

959216 - Cannot send larger messages using Stomp protocol

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=959216

959616 - Deadlock during clean shutdown of backup during activation

An JBoss Enterprise Application Platform 6 server that is configured as a HornetQ backup server will fail to shutdown in the following situation:

- Message-Driven Beans are locally deployed on the server, and
- the shutdown command is performed during the server's activation.

In this scenario the shutdown will result in a deadlock that prevents the shutdown process from completing. Once deadlocked, the server must be forcibly terminated. On Red Hat Enterprise Linux 6 this can be done using the `kill -9` command.

To avoid this situation, only attempt to shutdown the server before or after activation, and not during the journal loading process.

959789 - HQ core bridge does not failover

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=959789

928400 - pageSize >= maxSize causing inappropriate server state

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=928400

912653 - Clone: Remote JNDI is not working with a HornetQ-only JMS bridge

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=912653

922184 - Replicated journal - NullPointerException on backup side when saving add/commit message to non-existing journal

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=922184

928288 - Replicated Journal - Illegal backup state if network failures present while initial journal replication from live

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=928288

899966 - Problem with Netty on IPv6 link-local addresses

Due to a JDK bug, if you use link local addresses, zone IDs are used to distinguish which interface is chosen. This problem does not affect global addresses. A workaround will be included in a future version of the Netty component.

Scripts and Commands**965315 - jboss-ec2-eap timeout of user script does not work properly**

The timeout feature implemented in the user script on JBoss Enterprise Application Platform's AMI images does not work. If a command in the user script hangs, this will prevent the virtual machine booting successfully. The timeout feature was intended to allow the virtual machine to continue to boot, regardless of a hung user script command, allowing diagnostics to be carried out on the user script. The cause of this problem is that the Bash shell does not support job control in non-interactive shells and this feature is required by the timeout implemented in the user script. No workaround is currently available but it is expected to be resolved in the next release.

956281 - Starting EAP 6.1 on 32bit jvm can result in failure to start JVM

On Windows 8 32-bit JVMs, the default max perm gen space setting causes the JVM to not be created, which then prevents the server from starting. To work around this issue, remove the `-XX:MaxPermSize=256m` parameter from the startup parameters of the JVM. Once this is done the JVM will be created, and the server will start.

916960 - Standalone.bat does not work if parentheses are on path to EAP.

This release of JBoss Enterprise Application Platform 6 has a known issue with the Windows installer and installations to a default directory containing parentheses. For example; `C: Program Files (x86)\jboss-eap-6.1\`.

In these circumstances the `standalone.bat` file may fail with a message `\jboss-eap-6.1 was unexpected at this time.`

This is because the DOS processor interprets the ending parenthesis in the "echoed" JBoss path name as the end of the preceding `if` statement.

To resolve this issue:

1. Open the `JBOSS_HOME\bin\standalone.bat` file in an editor.
2. Find the following line:

```
| echo    JBOSS_HOME: %JBOSS_HOME%
```


3. Add double-quotes around the `%JBOSS_HOME%` variable:

```
echo JBOSS_HOME: "%JBOSS_HOME%"
```

This will ensure the parenthesis are interpreted correctly and the `standalone.bat` will execute successfully.

Security

920160 - Unauthorized access to a web application protected with a custom authorization module results in HTTP 200 (OK) instead of HTTP 403 (Forbidden)

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=920160

963277 - Debugging Java Security Managers results in a StackOverflow on boot

Running with a security manager enabled and `-Djava.security.debug=access:failure` results in a StackOverflow error message and an unbootable JBoss Enterprise Application Platform instance. This problem is caused because the `AccessControllerContext`'s debug output to the System streams causes an infinite loop while checking permissions. The root cause of this problem has been identified and it is expected to be fixed in a future release.

Apache Server (httpd) and Connectors, Documentation

900580 - `httpd: libaprutil-1.so.0: file too short`

Apache portable runtime (APR) binaries are not natively packaged as part of JBoss Enterprise Application Platform, or JBoss Enterprise Web Server, for Red Hat Enterprise Linux. Symlinks are used to reference the base Red Hat Enterprise Linux libraries. This can result in an issue with unresolvable symlinks when trying to use APR binaries if the following packages are not installed: `apr`, `apr-util`, `apr-devel`, `apr-util-devel`.

The fix for this issue will be shipped in a future Red Hat Enterprise Linux APR update.

CDI/Weld

927895 - META-INF "Dependencies: org.foo.module services" doesn't work for CDI Portable extensions

A Known Issue exists in this release of JBoss Enterprise Application Platform 6 wherein deployments with dependencies on CDI Portable Extensions delivered within modules will fail to deploy with the following exception:

```
org.jboss.weld.exceptions.DeploymentException: WELD-001408 Unsatisfied dependencies for type [<Extension Name>]
```

This is because deployments do not load CDI Portable Extensions from modules declared as dependencies.

In order for an application to load a CDI Portable Extension defined in a extension JBoss Module, it is not sufficient for the application to declare a dependency on the extension JBoss Module. The application must also declare a dependency on the Portable Extension class in its `META-`

`INF/services/javax.enterprise.inject.spi.Extension` file.

CLI

928444 - Unable to start CLI on windows if parent directory of aesh.log doesn't exist

The CLI tool fails to launch if the parent directory of its log file does not exist. The CLI throws an exception (`IOException`) with with following error message.

```
java.io.IOException: Couldn't get lock for  
C:\Users\hudson\AppData\Local\Temp\2\aesh.log
```

To avoid this error, ensure that the specified directory exists before launching the CLI tool.

Clustering,EJB

900480 - CLONE - Extremely slow response times in Remote EJB invocation on cluster membership change

On server shutdown or crash, membership changes can take up to one minute to complete. This issue is currently under investigation.

EJB,Naming,Remoting

923836 - remote:// protocol does not work over SSL with IBM JDK

There is a Known Issue in this release of JBoss Enterprise Application Platform 6 wherein the remote naming lookup fails intermittently on an IBM JDK with the following exception:

```
org.jboss.remoting3.NotOpenException: Endpoint is not open.
```

This issue appears to present when the client uses the IBM JDK. In instances where the server is on the IBM JDK and the and the client uses another JDK, the issue does not present.

The issue is being investigated for a resolution.

EJB,Remoting

962734 - IOException during EJB invocation causes a hang

If a server-side EJB protocol receiver received invalid message headers from a client, a message similar to the following would be logged, and the client would hang.

```
15:06:46,092 WARN [org.jboss.as.ejb3] (Remoting "dhcp-4-126" task-4)  
JBAS014254: Received unsupported message header 0xffffffff on channel  
Channel ID 0c51fad8 (inbound) of Remoting connection 4589adff to  
/127.0.0.1:33329
```

When the invalid message header is received and logged, the EJB protocol receiver did not re-enrol itself on the channel, so it would not respond to any further messages. The client would be left

waiting for a response which would never be sent because the original message was not processed by the server. No workaround is known for this issue but it is expected to be fixed in a future release.

EJB,Transaction Manager

952746 - Fix transaction recovery failures involving remote EJB resource

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=952746

Hibernate

900321 - HHH-7287 Problem in caching proper natural-id-values when obtaining result by naturalIdQuery using NaturalIdLoadAccess

`NaturalIdLoadAccess` behaves inconsistently when trying to load entities from the Level Two(L2) Cache after an update of their natural-id values from a non-transactional scenario.

Hibernate currently does not support proper L2 caching of entities with natural IDs in scenarios where there is a mix of transactional and non-transactional access to the database.

IPv6 support

900564 - Wrong format of IPv6 addresses in log entries

IPv6 addresses should be formatted with square brackets ([and]) around them, such as in `http://[2620:52:0:105f::ffff:2]:9990`. The brackets are missing in the log files for JBoss Enterprise Application Platform 6. This issue is scheduled to be fixed in a future release.

900609 - Opened IPv4 sockets on Windows when server is bound to IPv6

If JBoss Enterprise Application 6 is started in Microsoft Windows server with the IPv4 stack disabled and the IPv6 stack enabled, IPv4 sockets are still opened. This issue is still under investigation.

JCA

952277 - disable xa-data-source causes that data-source loses its attribute enabled set to false and after reload it becomes enabled

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=952277

RESEasy

958896 - RESEasy: Invalid Content-Type in response - Bad behavior when invalid accept header is specified in request header

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=958896

Remoting,Naming

913189 - Backward compatibility for JMS clients with JNDI lookups

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=913189

Server**911496 - Change in module structure prevents JBDS to create an EAP 6.1 server**

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=911496

Web Services**900634 - JBossWS-CXF doesn't send fault message to a FaultTo endpoint when request-response message.**

If the `FaultTo` element of WS-Addressing is set to a WS client, the WS server does not send fault messages to the `FaultTo` destination. However, if the `ReplyTo` element is set, the WS server does send the responses to the `ResponseTo` destination. The cause of this issue is still under investigation.

mod_cluster**901227 - node-timeout, worker-timeout, flush-wait and ttl mod_cluster attributes in web console**

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=901227

960243 - Regression in ProxyPass integration

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=960243

958991 - mod_cluster core when use ProxyPass / balancer://bal and CreateBalancers 1

Users of JBoss Enterprise Application Platform 6, who have `CreateBalancers 1` set in `/conf.d/mod_cluster.conf`, and who have not set the `stickysession=JSESSIONID|jsessionid` configuration will encounter the following segmentation fault:

```
[notice] child pid 7787 exit signal Segmentation fault (11)
```

Adding the `stickysession` element to the `CreateBalancers` configuration will resolve the issue.

For example:

```
CreateBalancers 1
ProxyPass / balancer://qacluster stickysession=JSESSIONID|jsessionid
```

900801 - Adding modcluster via the CLI fails.

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=900801

963720 - mod_cluster: proxy DNS lookup failure with IPv6 on Solaris

Refer to https://bugzilla.redhat.com/show_bug.cgi?id=963720

unspecified

900047 - SystemMemoryUsageLoadMetric is not correct on Linux/Unix

The **SystemMemoryUsageLoadMetric** does not show useful information on Linux or UNIX operating systems. For these systems, **HeapMemoryUsageLoadMetric** provides more useful information. The solution to this problem will be to change the algorithm of **SystemMemoryUsageLoadMetric** to subtract the **buffers/cache** value from the **used** number. The best method for doing this is under investigation.

901231 - Usage of finalize() needs extra guards on IBM JDK

JBoss Enterprise Application Platform 6 can experience intermittent failures when running on the IBM JDK 6 and 7. This is because the IBM garbage collector is much more aggressive than that of other JVMs. This can sometimes result in memory being reclaimed in situations that were unanticipated and did not manifest when testing on other JVMs.

Until this issue is resolved Red Hat recommends using the OpenJDK or Oracle JDK to run JBoss Enterprise Application Platform 6 on Red Hat Enterprise Linux.

A. REVISION HISTORY

Revision 0.0-24 Added note that NIO connectors are not supported.	Fri June 5 2015	Russell Dickenson
Revision 0.0-22 BZ-968592: Removed now incorrect sentence about not being able to directly use the Infinispan API.	Wed Sep 10 2014	Misha Husnain Ali
Revision 0.0-20 EAP 6.1.0 GA Release	Thu May 23 2013	Russell Dickenson