
JBoss Enterprise SOA Platform 4.2 4.2.CP04 Release Notes

JBoss Enterprise SOA Platform Updates



Abstract

Late breaking and important information related to the 4.2.CP04 release of the JBoss Enterprise SOA Platform

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1. Updated Release Notes

These Release Notes contain important and late-breaking information related to this release of the JBoss Enterprise SOA Platform.

For the latest version of these release notes please refer to the online documentation available at http://www.redhat.com/docs/en-US/JBoss_SOA_Platform/.

2. Overview

JBoss Enterprise SOA Platform is a certified, tested, and supported platform for developing Enterprise Application Integration and Service Oriented Architecture solutions.

It integrates a number of stable and scalable open source frameworks and solutions including Hibernate, Seam, JBoss Transactions, JBoss Clustering, the JBoss Application Server, and JBoss Enterprise Service Bus (ESB) to provide an infrastructure for enterprise SOA applications.

These community developed and enterprise certified and supported products have been combined and tested to provide a solid, robust, and scalable platform. Powered by legendary JBoss innovation and backed by Red Hat engineering and quality assurance, JBoss Enterprise SOA Platform is the platform of choice for a new generation of enterprise applications.

3. Components of the 4.2 CP04 Release

Project	Version
JBoss EAP	4.3.0 CP04
JBossESB	4.2.1 CP5

Project	Version
JBossTS	4.2.3.SP5_CP04
JBoss Messaging	1.4.0.SP3-CP07
JBoss Rules	4.0.7
jBPM	3.2.5 SP5
JBossWS	2.0.1.SP2_CP05

Table 1. Project Versions

4. Included Documentation

The JBoss Enterprise SOA Platform documentation is distributed separately to the software distribution. There are two documentation packages, one for the *SOA Stand-alone* distribution and one for the *SOA Platform* distribution. Both of these packages are available from the JBoss Customer Service Portal at <https://support.redhat.com/jbossnetwork/restricted/main.html>.

The *SOA Stand-alone* documentation package only includes the JBoss SOA documentation. The *SOA Platform* documentation package also includes the documentation for the version of JBoss EAP included in the *SOA Platform* distribution.



Important

The documentation paths referred to in the EAP documents will differ from the actual location of the EAP documents included with the SOA Platform.

Regularly updated versions of these documents are available at http://www.redhat.com/docs/en-US/JBoss_SOA_Platform/.

The JBoss Enterprise SOA Platform documentation includes eleven documents. After the Release Notes it is recommended that you read the *Getting Started Guide* first as it contains detailed instructions for installing and configuring the product.

5. Hardware Requirement Recommendations

These recommendations do not represent an absolute minimum requirement for running the SOA Platform but rather present a baseline for reasonable performance. The SOA Platform will run on far lesser hardware although your performance will suffer accordingly.

Also note that performance is affected by other factors such as the sub-systems of the hardware platform. When using 'non-server class' hardware such as a laptop for development & testing, performance results may be less than those when deployed in your production environment.

These guidelines also do not take into account the requirements of the server's operating system or other applications, nor does it include your own applications and services deployed on the SOA Platform. It is the developers' responsibility to provide performance requirements for their own services & applications to be deployed.

CPU

Minimum: Pentium4 class. Recommended: Dual-core or greater.

MEMORY

1 Gigabyte of memory is a recommended minimum. Increasing memory is often the most effective means of increasing performance.

STORAGE SPACE

The full installation of the SOA Platform server requires 500 megabytes of hard drive space. The standalone ESB server only requires 200 megabytes of space. You will also require additional space for log files. 10 Gigabytes is considered adequate for a production environment with log rotation configured.

6. Issues resolved in the CP04 release

The CP04 release of the SOA platform includes all the fixes provided by the CP03, CP02, and CP01 releases. Additionally the following issues are resolved by this release.

6.1. JBoss Enterprise Application Platform Issues

<https://jira.jboss.org/jira/browse/SOA-1110>

The file **logo.gif** in the web management console (**management/console-mgr.sar/web-console.war/**) is now in the correct directory.

<https://jira.jboss.org/jira/browse/JBPAPP-1548>

WSDL requests from custom web service endpoints were not being properly validated. This allowed a remote attacker to read arbitrary XML files by using a crafted request. This has been fixed.

6.2. JBoss Enterprise SOA Platform Issues

<https://jira.jboss.org/jira/browse/SOA-1325>

The database schema tool can now be used more than once to change your database configuration.

<https://jira.jboss.org/jira/browse/JBESB-2529>

The filename of the End User License Agreement (EULA) included in the SOA Platform has been changed from **JEMS-EULA.txt** to **JBossEULA.txt** in accordance with JBoss EAP.

<https://jira.jboss.org/jira/browse/SOA-1158>

The performance of log4j in the production server configuration has been improved. The default configuration now only sends those log messages of priority INFO or higher to the log appender instead of sending all messages.

<https://jira.jboss.org/jira/browse/SOA-1147>

Several of the links on the default SOA Platform web page (<http://localhost:8080>) have been updated to point at more current resources.

<https://jira.jboss.org/jira/browse/SOA-875>

The JMX Console no longer displays JSP source code as part of error message pages.

6.3. JBoss ESB Issues

<https://jira.jboss.org/jira/browse/SOA-1327>

The **ACCESS_POINT_URL** column of the **BINDING_TEMPLATE** table in the jUDDI database has been extended from 2000 characters to 4000 to allow for very long URLs. This step must be performed manually when upgrading to 4.2.CP04 or later. Additional details on performing this update can be found in the Getting Started Guide.

<https://jira.jboss.org/jira/browse/JBESB-2505>

JMSEpr addressing was incorrectly interpreting URIs as only consisting of only a hostname and port number, **hostname:port**, instead of a complete URI. This has been fixed.

<https://jira.jboss.org/jira/browse/JBESB-2514>

Removed synchronization around lifecycle resource access in **CourierFactory** to prevent potential deadlock situations during shutdown.

<https://jira.jboss.org/jira/browse/JBESB-2509>

The JMS/JCA adapter (**JmsListenerMapper**) now maps the maximum thread count variable onto the `maxSession` attribute. Previously it was incorrectly being mapped onto the `maxMessages` attribute.

<https://jira.jboss.org/jira/browse/JBESB-2403>

The file **test.jsp** has been removed from the ESB management console. This file was mistakenly included and was not being used.

<https://jira.jboss.org/jira/browse/JBESB-2306>

The classes **SecureFtpImpl** and **SecureFtpUserInfo** have been removed as SFTP is not supported in this version.

<https://jira.jboss.org/jira/browse/JBESB-2145>

The **helloworld_db_registration** quickstart has been removed.

<https://jira.jboss.org/jira/browse/JBESB-2264>

The ant script for building the ESB Management Console, **tools/console/management-esb/build.xml**, now defaults to the **production** server configuration instead of **default**.

<https://jira.jboss.org/jira/browse/JBESB-2262>

The Notifier action optional property `insert-timestamp-column` no longer causes errors if it is not supplied.

<https://jira.jboss.org/jira/browse/JBESB-2212>

The **sql-message-filter** optional attribute `insert-timestamp-column` no longer causes errors if it is not supplied.

<https://jira.jboss.org/jira/browse/JBESB-2243>

`JmsSession` now caches the acknowledge mode rather than deferring to the underlying session every time it is requested. This prevent failed sessions remaining in the 'in use' state when a subsequent call to `getAcknowledgeMode` generates an error.

<https://jira.jboss.org/jira/browse/JBESB-1507>

A potential race condition when retrieving information from jUDDI has been resolved.

6.4. Documentation Issues

<https://jira.jboss.org/jira/browse/SOA-1332>

ESB Registry Guide - Clarified wording of content related to EPR registration.

<https://jira.jboss.org/jira/browse/SOA-1132>

ESB Registry Guide - jUDDI database configuration directions have been updated to refer to the SOA Platform database schema tool.

<https://jira.jboss.org/jira/browse/SOA-1131>

ESB Message Action Guide - A reference to the `webservice_jbossws_adapter_01` quickstart has been removed because this quickstart is not longer included.

<https://jira.jboss.org/jira/browse/SOA-1129>

ESB Registry Guide - Several jUDDI path references have been corrected and the Troubleshooting section now includes references to the SOA Platform database schema tool.

<https://jira.jboss.org/jira/browse/SOA-1128>

ESB Registry Guide - The details of how to configure Scout to use SOAP to communicate with jUDDI has been updated to clearly indicate that this is unsupported functionality in the SOA Platform.

<https://jira.jboss.org/jira/browse/SOA-1125>

ESB Programmers Guide - Chapter 4 contained out of date information regarding Couriers. This has been updated.

6.5. jBPM Issues

<https://jira.jboss.org/jira/browse/JBPM-1166>

SEAM timer transaction integration

<https://jira.jboss.org/jira/browse/JBPM-1404>

The jBPM ProcessClassLoader now defines associated package information for classes defined from within a PAR file. This allows JAXB marshaling to work as expected.

<https://jira.jboss.org/jira/browse/JBPM-1448>

The thread context classloader is now initialized by jBPM when executing actions within the process. This allows access to classes and resources in the PAR file.

<https://jira.jboss.org/jira/browse/JBPM-1707>

Pageflow parsing is slow.

<https://jira.jboss.org/jira/browse/JBPM-1708>

Enterprise EjbSchedulerTest fails.

<https://jira.jboss.org/jira/browse/JBPM-1709>

Enterprise JmsMessageTest fails sporadically.

<https://jira.jboss.org/jira/browse/JBPM-1711>

Pass testsuite against MySQL.

<https://jira.jboss.org/jira/browse/JBPM-1718>

Pass testsuite against PostgreSQL.

<https://jira.jboss.org/jira/browse/JBPM-1719>

Pass testsuite against Sybase.

<https://jira.jboss.org/jira/browse/JBPM-1755>

The field Join.parentLockMode is now persistent.

<https://jira.jboss.org/jira/browse/JBPM-1779>

Resolve dependency on gwt-console for enterprise.

<https://jira.jboss.org/jira/browse/JBPM-1807>

JSF Console: Complete task fails.

<https://jira.jboss.org/jira/browse/JBPM-850>

Tasks with mail notification, i.e. notify="yes", fail if the assigned actor has no e-mail address.

<https://jira.jboss.org/jira/browse/JBPM-1181>

Document end-complete-process attribute on end-state.

<https://jira.jboss.org/jira/browse/JBPM-1205>

Cleanup stale core tests from the testsuite.

<https://jira.jboss.org/jira/browse/JBPM-1290>

Integrate example tests in automated test run.

<https://jira.jboss.org/jira/browse/JBPM-1297>

Integrate all tests in automated QA.

<https://jira.jboss.org/jira/browse/JBPM-1355>

Add integration with supported target containers.

<https://jira.jboss.org/jira/browse/JBPM-1372>

Verify that IzPack based distribution is complete.

<https://jira.jboss.org/jira/browse/JBPM-1734>

Cleanup ProcessInstanceDbTest.

<https://jira.jboss.org/jira/browse/JBPM-1735>

Cleanup ProcessStateDbTest.

<https://jira.jboss.org/jira/browse/JBPM-1736>

Cleanup JBPM983Test.

<https://jira.jboss.org/jira/browse/JBPM-1737>

Cleanup SubProcessPlusConcurrencyDbTest.

<https://jira.jboss.org/jira/browse/JBPM-1738>

Cleanup JbpmContextGetDbTest.

<https://jira.jboss.org/jira/browse/JBPM-1739>

Cleanup GraphSessionDbTest.

<https://jira.jboss.org/jira/browse/JBPM-1740>

Cleanup TaskVariablesDbTest.

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<https://jira.jboss.org/jira/browse/JBPM-1741>

Cleanup BusinessKeyDbTest.

<https://jira.jboss.org/jira/browse/JBPM-1742>

Cleanup ExpressionAssignmentHandlerTest.

<https://jira.jboss.org/jira/browse/JBPM-1764>

Deadlocks make job execution tests fail on Sybase.

<https://jira.jboss.org/jira/browse/JBPM-1771>

Fix JobExecutorDbTest on PostgreSQL.

<https://jira.jboss.org/jira/browse/JBPM-1772>

Fix JoinDbTest on PostgreSQL.

<https://jira.jboss.org/jira/browse/JBPM-1804>

Fix regression on HSQLDB.

<https://jira.jboss.org/jira/browse/JBPM-1817>

Changed name jbp-core to jbp-jpdl where applicable.

<https://jira.jboss.org/jira/browse/JBPM-1294>

Integrate console tests in automated testrun.

<https://jira.jboss.org/jira/browse/JBPM-1022>

In the Admin Console any user can see all users tasks.

<https://jira.jboss.org/jira/browse/JBPM-1024>

Serializable variables are not being de-serialized when retrieved from process.

<https://jira.jboss.org/jira/browse/JBPM-1045>

The test suite has to throw a runtime exception on error so a meaningful report can be generated.

<https://jira.jboss.org/jira/browse/JBPM-1046>

JobExecutorServlet cannot use a local JNDI name to access a datasource.

<https://jira.jboss.org/jira/browse/JBPM-1072>

Concurrent JobExecutors can process the same job in parallel.

<https://jira.jboss.org/jira/browse/JBPM-1073>

Allow the attribute to in the mail module to resolve EL expressions.

<https://jira.jboss.org/jira/browse/JBPM-1084>

Null Pointer Exceptions occur in VariableAccess with Oracle persistence.

<https://jira.jboss.org/jira/browse/JBPM-1085>

Join of new process instance fails in Oracle.

<https://jira.jboss.org/jira/browse/JBPM-1098>

businesscalendar is unaware of leap years.

<https://jira.jboss.org/jira/browse/JBPM-1109>

StringInstance **hbm** configuration column length of 4000 is ignored when generating the DDL.

<https://jira.jboss.org/jira/browse/JBPM-1112>

<mail> action not allowed in <timer>

<https://jira.jboss.org/jira/browse/JBPM-1119>

Timers using EjbSchedulerService are not persisted across JBoss restarts.

<https://jira.jboss.org/jira/browse/JBPM-1154>

jBPM example "action" - wrong package name referenced in JUnit tests.

<https://jira.jboss.org/jira/browse/JBPM-1155>

jBPM example "mail" - missing import statements, etc.

<https://jira.jboss.org/jira/browse/JBPM-1156>

jBPM example: customTaskInstance fails with classcast exception.

<https://jira.jboss.org/jira/browse/JBPM-1157>

Broken links in jBPM **examples/readme.html**.

<https://jira.jboss.org/jira/browse/JBPM-1167>

JMS message service fails under WebSphere 6.1.

<https://jira.jboss.org/jira/browse/JBPM-1184>

Add end-task attribute to schema.

<https://jira.jboss.org/jira/browse/JBPM-1186>

Jobexecutor threads are not stopped when JobExecutorServlet is destroyed.

<https://jira.jboss.org/jira/browse/JBPM-1190>

Allow only one action element in a node.

<https://jira.jboss.org/jira/browse/JBPM-1438>

Task assigned to different actor-id can be seen and manipulated in jBPM console.

<https://jira.jboss.org/jira/browse/JBPM-1059>

Fixed possible integer overflow in DayPart.add().

<https://jira.jboss.org/jira/browse/JBPM-1086>

FlushDbTest get the connection details from the Hibernate configuration

<https://jira.jboss.org/jira/browse/JBPM-1187>

Verified that code completion works correctly in designer.

<https://jira.jboss.org/jira/browse/JBPM-1191>

Enterprise console error: No CurrentSessionContext configured.

<https://jira.jboss.org/jira/browse/JBPM-1099>

Create documentation for EL addition to dueDate.

<https://jira.jboss.org/jira/browse/JBPM-1100>

dueDate extension should also accept **Calendar**.

<https://jira.jboss.org/jira/browse/JBPM-1101>

Task dueDate should also accept an EL as basedate.

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<https://jira.jboss.org/jira/browse/JBPM-1446>

Display non GMT+0 time zones.

<https://jira.jboss.org/jira/browse/JBPM-1450>

Disable jBPM logging in SOA profile.

<https://jira.jboss.org/jira/browse/JBPM-1471>

Do not signal ENDED super process token when ending process instance.

<https://jira.jboss.org/jira/browse/JBPM-1903>

java:/comp/env JNDI Namespace not found within **ActionHandler** implementations.

<https://jira.jboss.org/jira/browse/JBPM-1988>

Suppression of `StaleObjectStateException` stack traces does not work with **JtaDbPersistenceServiceFactory**.

<https://jira.jboss.org/jira/browse/JBPM-1989>

Null Pointer Exception in jBPM JobExecutor on server shutdown.

<https://jira.jboss.org/jira/browse/JBPM-1991>

Change default parentLockMode from **FORCE** to **UPGRADE**.

<https://jira.jboss.org/jira/browse/JBPM-2005>

IzPack distribution does not contain all examples.

<https://jira.jboss.org/jira/browse/JBPM-2017>

STRINGVALUE_ column in **JBPM_VARIABLEINSTANCE** table should be **text**, not **varchar (255)**.

<https://jira.jboss.org/jira/browse/JBPM-2018>

StringInstance **hbm** configuration column length of 4000.

<https://jira.jboss.org/jira/browse/JBPM-2036>

Trying to exit from a node with an action attached to a repeating timer throws a `StaleObjectStateException` exception.

<https://jira.jboss.org/jira/browse/JBPM-2050>

Distributed examples cannot be compiled.

<https://jira.jboss.org/jira/browse/JBPM-2057>

Do not truncate long messages or exceptions.

<https://jira.jboss.org/jira/browse/JBPM-2086>

org.jbpm.db.JbpmSchemaDbTest.testCleanSchema is failing with SOA 4.3 CP01 libraries.

<https://jira.jboss.org/jira/browse/JBPM-2088>

Match JDBC driver versions between jBPM and EAP.

<https://jira.jboss.org/jira/browse/JBPM-2094>

Unindexed Foreign Keys cause deadlocks in Oracle.

7. Issues resolved in the CP03 release

The CP03 release of the SOA platform includes all the fixes provided by the CP02 and CP01 releases. Additionally the following issues are resolved by this release.

7.1. JBoss Rules Issues

<https://jira.jboss.org/jira/browse/JBRULES-1676>

Importing of nested classes more than one level deep did not work.

7.2. JBoss Enterprise SOA Platform Issues

<https://jira.jboss.org/jira/browse/SOA-865>

FIXED: the embedded server would not accept a shutdown command immediately after starting up.

<https://jira.jboss.org/jira/browse/SOA-611>

The file **asm.jar** in **deploy/jbpm.esb/** was a duplicate. It has been removed and the only copy is now in the **lib** directory of the server.

7.3. JBoss Application Server Issues

<https://jira.jboss.org/jira/browse/JBPAPP-544>

The Status Servlet for the embedded Tomcat server now requires authentication.

7.4. jBPM Issues

<https://jira.jboss.org/jira/browse/JBPM-1072>

JobExecutor is now thread safe. Different executors running in different threads will not try to process the same job from the queue.

<https://jira.jboss.org/jira/browse/JBPM-1186>

JobExecutor threads now stop when the JobExecutorServlet is destroyed

<https://jira.jboss.org/jira/browse/JBPM-1179>

For compatibility with other application servers, **jbpm.esb** now has the `jta.UserTransaction` property in **hibernate.cfg.xml** set to the value of **UserTransaction**.

<https://jira.jboss.org/jira/browse/JBPM-1156>

The jBPM example **customTaskInstance** was failing with a classcast exception. This has been fixed.

<https://jira.jboss.org/jira/browse/JBPM-1155>

The jBPM example **mail** was missing several import statements. This has been fixed.

<https://jira.jboss.org/jira/browse/JBPM-1157>

The **examples/readme.html** file in the jBPM package had several html links that pointed to resources that didn't exist.

<https://jira.jboss.org/jira/browse/SOA-870>

The jBPM Identity component is now enabled by default in **jbpm.esb**

7.5. JBoss ESB Issues

<https://jira.jboss.org/jira/browse/JBESB-1809>

PostgreSQL is now supported by the ESB Management console (management.esb)

<https://jira.jboss.org/jira/browse/JBESB-2153>

JBossWS now correctly supports non-image binary data attachments

<https://jira.jboss.org/jira/browse/JBESB-1930>

Fixed potential deadlock scenario with ServiceInvoker synchronous delivery

<https://jira.jboss.org/jira/browse/JBESB-2169>

The **business_rules_service** QuickStart was missing an action

<https://jira.jboss.org/jira/browse/JBESB-2202>

Oracle users can now specify the database property for the ESB Management console as **oracle9i** or **oracle10g** instead of **oracle** to avoid warnings being displayed at startup. This is documented in the ESB Monitoring Guide.

<https://jira.jboss.org/jira/browse/JBESB-1805>

The SQL Listener now uses BLOBs/CLOBs for serialization to avoid character field size limitations in some supported database servers. See also: <https://jira.jboss.org/jira/browse/JBESB-1833> and <https://jira.jboss.org/jira/browse/JBESB-1834>

<https://jira.jboss.org/jira/browse/JBESB-2155>

jUDDI performance has been improved by overriding Scout's behaviour using AOP and by adding a cache to the registry

<https://jira.jboss.org/jira/browse/JBESB-2183>

The **ServiceInvoker** was not updating the ReplyTo address of a message when the initial EPR failed but a subsequent one was successful, thus the sending of a reply message would fail.

<https://jira.jboss.org/jira/browse/JBESB-2184>

Potential endless loop removed from JmsCourier

<https://jira.jboss.org/jira/browse/JBESB-2166>

jUDDI's incorrect handling of CDATA sections within XML has been fixed

<https://jira.jboss.org/jira/browse/JBESB-2158>

Generator.getService() no longer throws a **NullPointerException** for services that do not define any listeners, such as InVM services.

<https://jira.jboss.org/jira/browse/JBESB-2160>

New configuration added to **jbossesb-properties.xml** for **org.jboss.soa.esb.registry** specifying interceptor, cache.maxSize, cache.validityPeriod

<https://jira.jboss.org/jira/browse/JBESB-2159>

Services variables were incorrectly defaulting to local instead of process scope. This has been corrected, the default scope is process.

<https://jira.jboss.org/jira/browse/JBESB-2150>

The Config Generator now normalises all listener, bus, provider name values to ensure they are valid element names in the generated config file.

<https://jira.jboss.org/jira/browse/JBESB-2151>

ESB services are now uniquely identified by **node:esb:category:service** instead of **node:esb:service**

<https://jira.jboss.org/jira/browse/JBESB-2152>

A cache for XPath evaluation has been added to Content-Based Routing with JBossRules. This has shown performance improvements up to a factor of three.

<https://jira.jboss.org/jira/browse/JBESB-2154>

SOAPClient.process() now throws a `ActionProcessingException` instead of a `ClassCastException` if a message body does not contain a **Map**.

<https://jira.jboss.org/jira/browse/JBESB-2156>

FIXED: **SoapUIClient** was inserting cloned nodes in the wrong location when you had several unbound collections in a series.

<https://jira.jboss.org/jira/browse/JBESB-2157>

RegistryFactory.createRegistry() no longer creates a new registry instance if one has already been initialized.

<https://jira.jboss.org/jira/browse/JBESB-2161>

HttpClientFactory.createHttpClient() now initializes the parameters for the `HttpConnectionManager`

<https://jira.jboss.org/jira/browse/JBESB-2163>

ScheduleListener now adheres to the standard gateway/listener lifecycle mechanism

<https://jira.jboss.org/jira/browse/JBESB-2162>

Trying to deploy an Action with the same name as an existing Action will now fail by throwing a `ConfigurationException` instead of simply logging it and continuing to deploy

<https://jira.jboss.org/jira/browse/JBESB-2164>

`ScheduleListener` now includes the service's category and name in the configuration.

<https://jira.jboss.org/jira/browse/JBESB-2165>

FileGatewayListener.renameFile() no longer attempts to delete the destination file if it already exists. This could lead to the removal of the successfully renamed file from another listener if multiple listeners are executing within the same directory.

<https://jira.jboss.org/jira/browse/JBESB-2167>

Cron schedules now use `FIRE_ONCE_NOW` instead of `DO_NOTHING` as their misfire behaviour. This stops identically timed schedules or single schedules with multiple associated listeners/jobs from only ever successfully running the first scheduled item.

<https://jira.jboss.org/jira/browse/JBESB-2172>

Compiling the management console no longer forces re-compilation of all dependent classes.

<https://jira.jboss.org/jira/browse/JBESB-2190>

`JmsRouter` now obtains a different session/producer from the connection pool to be used within the scope of each request rather than sharing one across all invocations of the router.

<https://jira.jboss.org/jira/browse/JBESB-2191>

JmsRouter now attempts to obtain a new session/producer for a request if connection failure occurs instead of immediately closing it.

<https://jira.jboss.org/jira/browse/JBESB-2197>

A currently unused part of the JMS ReplyTo address was being initialized incorrectly. This has been corrected.

8. Issues resolved in the CP02 release

The CP02 release of the SOA platform provides the CP01 release of EAP 4.3. Please refer to the EAP 4.3 CP01 release notes for a list of issues resolved in that component. Additionally the following issues are resolved by this release.

<https://jira.jboss.org/jira/browse/SOA-489>

Drools rules that use java modify() block do not compile if fact being modified is an InnerClass

<https://jira.jboss.org/jira/browse/SOA-493>

jms_secured quickstart does not work in the SOA platform

<https://jira.jboss.org/jira/browse/SOA-499>

/tools/schema tool does not copy JDBC connector jar to target server lib directory

<https://jira.jboss.org/jira/browse/SOA-502>

Documentation examples package the wrong version of Seam

<https://jira.jboss.org/jira/browse/SOA-504>

Input data file for transform_CSV2XML quickstart generates a warning

<https://jira.jboss.org/jira/browse/SOA-510>

FATAL [DatasourceConnectionProvider] Could not find datasource: java:/JbpmDS error seen intermittently on server startup

<https://jira.jboss.org/jira/browse/SOA-511>

java.lang.NoClassDefFoundError: org/quartz/JobExecutionContext error seen intermittently on server startup

<https://jira.jboss.org/jira/browse/SOA-514>

helloworld_tx_sql_action quickstart - An intermittent timing error causes the quickstart to sometimes fail to start and remain in an infinite loop

<https://jira.jboss.org/jira/browse/SOA-527>

Management console Hibernate mapping mismatch

<https://jira.jboss.org/jira/browse/SOA-528>

Change size of VARCHAR2 fields in management console (Oracle)

<https://jira.jboss.org/jira/browse/SOA-530>

ESB is incorrectly reporting empty value for org.jboss.soa.esb.mail.smtp.auth

<https://jira.jboss.org/jira/browse/SOA-531>

jBPM datasource should be XA datasource

<https://jira.jboss.org/jira/browse/SOA-545>

MSSQL: Unable to populate JBPM_ID_... tables

<https://jira.jboss.org/jira/browse/SOA-557>

CP01 (helloworld quickstart) is failing with Tibco EMS as the JMS provider

9. Issues resolved in the CP01 release

<https://jira.jboss.org/jira/browse/SOA-76>

Full SOA install does not install ESB related examples

<https://jira.jboss.org/jira/browse/SOA-223>

SOA-Platform Port 8083, serving all deployed classes

<https://jira.jboss.org/jira/browse/SOA-249>

bpm_orchestration1 needs to be updated

<https://jira.jboss.org/jira/browse/SOA-375>

Mention that jUDDI/Scout combination in SOA-P may not be entirely compatible with EAP usage

<https://jira.jboss.org/jira/browse/SOA-396>

assert-jbossremoting-version in base-build.xml refers to exec-classpath before it is declared

<https://jira.jboss.org/jira/browse/SOA-398>

JAR duplicates in CR2

<https://jira.jboss.org/jira/browse/SOA-402>

Rule that uses a 'collect' and 'from' clause together causes problem

<https://jira.jboss.org/jira/browse/SOA-403>

RuleBase.removeRule() prevents other rules from being applied

<https://jira.jboss.org/jira/browse/SOA-404>

Rules behave incorrectly (randomly) in multi-threaded environment

<https://jira.jboss.org/jira/browse/SOA-405>

Document how to run clustered services

https://jira.jboss.org/jira/browse/SOA_406

The StoreURL attribute for ServiceBindingManager in /conf/jboss-service.xml points to the wrong dir

<https://jira.jboss.org/jira/browse/SOA-408>

JBPM unit tests many issues with PostgreSQL - jpdI test suite hangs

<https://jira.jboss.org/jira/browse/SOA-409>

bpm_orchestration2 generates "java.lang.NumberFormatException" warnings on dual-core systems

<https://jira.jboss.org/jira/browse/SOA-413>

Identity component is disabled in jbpM.esb

4.2.CP04 Release Notes

<https://jira.jboss.org/jira/browse/SOA-416>

The CR3 getting started guide refers to the Trailblazer - which we removed

<https://jira.jboss.org/jira/browse/SOA-420>

error in helloworld_hibernate_action QS readme file

<https://jira.jboss.org/jira/browse/SOA-425>

bin/probe.sh should be removed from standalone server

<https://jira.jboss.org/jira/browse/SOA-427>

schema tool broken for oracle

<https://jira.jboss.org/jira/browse/SOA-431>

helloworld_hibernate_action - Hibernate Interceptor events onSave, OnLoad return different subset of message - onDelete seems OK

<https://jira.jboss.org/jira/browse/SOA-434>

Remove unused console from distributed release: **`${SOA_ROOT}/tools/console`**

<https://jira.jboss.org/jira/browse/SOA-436>

The GA builds include (2) versions of drools-core and drools-compiler .jars

<https://jira.jboss.org/jira/browse/SOA-438>

GroovyActionProcessor implementation is grossly inefficient

<https://jira.jboss.org/jira/browse/SOA-439>

Groovy security compromised

<https://jira.jboss.org/jira/browse/SOA-444>

soa jbpm-jpdl.jar should not contain server or designer directories

<https://jira.jboss.org/jira/browse/SOA-447>

FileGateways are not safe when used with more than one thread

<https://jira.jboss.org/jira/browse/SOA-448>

bpm_orchestration deployProcess targets use wrong dependency

<https://jira.jboss.org/jira/browse/SOA-456>

Infinite loop missing from notifications quickstart - client that reads from a topic

<https://jira.jboss.org/jira/browse/SOA-458>

Quickstart helloworldtopicnotifier/ReceiveJMSMessage.java - wait loop pushes CPU to 100%

<https://jira.jboss.org/jira/browse/SOA-459>

notifications quickstart references a message property that is not set

<https://jira.jboss.org/jira/browse/SOA-464>

SOA_Getting_Started_Guide.pdf fix

<https://jira.jboss.org/jira/browse/SOA-466>

org.jboss.soa.esb.actions.Notifier - NotifyQueues - fails if the queue to be notified has a listener defined

<https://jira.jboss.org/jira/browse/SOA-469>

FTPNotify problems with passive mode

<https://jira.jboss.org/jira/browse/SOA-471>

Wrong version string at top level SOA-P page

<https://jira.jboss.org/jira/browse/SOA-472>

JMSCourier does not look up Topic from JNDI, instead it tries to create it

<https://jira.jboss.org/jira/browse/SOA-474>

Document the issue with jBPM designer and white space

<https://jira.jboss.org/jira/browse/SOA-478>

JMS/TX integration only works in very restricted circumstances

<https://jira.jboss.org/jira/browse/SOA-479>

Document SOA-410 as it is db specific

<https://jira.jboss.org/jira/browse/SOA-480>

Document SOA-417 as being db specific

<https://jira.jboss.org/jira/browse/SOA-482>

error in schema/build.properties

10. Important Notes

10.1. Standalone distribution versus Embedded EAP distribution

There are two versions of the JBoss Enterprise SOA Platform:

1. the "standalone" version - **standalone-soa-4.2.0**
2. the "embedded EAP" version - **soa-4.2.0**

The standalone version is intended for use in environments where a lightweight solution is required; for example when a Java Application Server is already installed on the network. It does not include the JBoss Enterprise Application Platform with JBoss Application Server, Seam, Hibernate, or clustering. It provides core ESB (Enterprise Service Bus) functionality only.

The embedded EAP version includes, in addition to the Enterprise Service Bus functionality, the JBoss AS server and other components and frameworks to provide a fully-fledged application development environment. This version provides services such as clustering, transactions, and persistence through the JBoss Enterprise Application Platform.

10.2. Embedded Hypersonic Database

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

Instructions to change the database provider are in the Post-Installation Configuration section of the JBoss Enterprise SOA Platform Getting Started Guide.

10.3. Creating a Development profile

For evaluation, testing, or development purposes you may wish to run the server without full production capabilities, such as clustering, enabled. The SOA Platform Getting Started Guide now contains instructions for creating such a development profile in its Post-Installation Configuration Chapter

10.4. Securing the server for production environments



Warning

The following are important notes relating to the security of your system.

10.4.1. Securing the JBPM Console

Two distinct **jbpm-console.war** files are shipped with the platform. One is a development version which allows unauthenticated access to deploy processes to the server, for use with a graphical process design tool such as JBoss Developer Studio while developing applications. The other is a production version which secures the console against remote deployment. *You should not run your server in a production environment with the unsecured development version of **jbpm-console.war** deployed.* Doing so poses a threat to the security of your server.

Standalone version of JBoss Enterprise SOA Platform

In the standalone version, we ship with the unsecured uploader console by default. *Initially, your server is configured for development.* The jBPM JPDL will be able to deploy processes. Before putting it into production you should secure the console.

Procedure 1. To secure the console in the standalone version

- Copy the file **/tools/resources/jbpm-console-production.war** to **/server/default/deploy/jbpm.esb/jbpm-console.war**.

Procedure 2. To enable remote deployment of processes in the standalone version

- Copy **/tools/resources/jbpm-console-development.war** to **/server/default/deploy/jbpm.esb/jbpm-console.war**.

In each case the file must be overwritten. You can not have two versions of the **war** in the deployment directory.

Embedded JBoss Enterprise Application Platform version of JBoss Enterprise SOA Platform

In the embedded JBoss Enterprise Application Platform version, the "**all**" profile has the development version of the **war**, and the "**production**" profile has the production version. *By default your server is configured to operate in a secure mode.* To enable it for development mode you need to run in the unsecured mode of operation.

Procedure 3. To secure the console in the embedded EAP version

- Start the server with no command line parameters or with the parameter "**-c production**"

Procedure 4. To enable remote deployment of processes in the embedded EAP version

- Start the server using the parameter "**-c all**"

We *do not recommend* running the server on an unsecured network with the **jbpm-console-development.war** deployed or using the **all** profile without appropriate modification.

10.4.2. Preventing download of non-RMI classes on Port 8083 in the standalone version of the server

If you use RMI (Remote Method Invocation) you will want to make Port 8083 of your server accessible to clients. The EAP version of the server is configured out of the box to restrict the classes that it serves on this port. The standalone server, however, is configured out of the box to serve all deployable classes via this port. This has been done to allow the quickstarts to function correctly by default.

To change this behavior you need to modify the following line in **default/conf/jboss-service.xml**:

```
<!-- Should non-EJB .class files be downloadable -->
  <attribute name="DownloadServerClasses">false</attribute>
```

The value for this attribute is set as **true** out of the box, and it should be set to **false** in actual production deployment to prevent the server from serving all deployable classes on Port 8083.

10.5. Product Support and License Website Links**Support Processes**

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

Production Support Scope of Coverage

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

Production Support Service Level Agreement

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

Developer Support Scope of Coverage

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

Developer Support Service Level Agreement

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

Product Update and Support Policy by Product

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

JBoss End User License Agreement

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

10.6. Obtaining Source Code

The source code for this and other JBoss Enterprise SOA Platform releases are available from the JBoss Customer Service Portal at <https://support.redhat.com/jbossnetwork/restricted/main.html>.

11. Known Issues in this release

11.1. JBPM Logging negatively affects performance

For performance reasons jBPM logging should be disabled in production environments. This can be done by removing or commenting out the logging service element from the jBPM ESB service configuration file, `${SOA_ROOT}/server/production/jbpm.esb/jbpm.cfg.xml`.

```
<jbpm-context>
  ...
  <!--
  <service name="logging"
    factory="org.jbpm.logging.db.DbLoggingServiceFactory" />
  -->
  ...
</jbpm-context>
```

Additional information: <https://jira.jboss.org/jira/browse/JPBM-1450>

11.2. SQL Listener is not usable with most databases

`SqlTableGatewayListener` and `SqlTableCourier` do not check if returned data of type BLOB is NULL.

Additional information: <https://jira.jboss.org/jira/browse/SOA-1066>

11.3. JBoss Remoting throws a SocketException at shutdown

When shutting down the SOA Platform server a `java.net.SocketException` is thrown by JBoss Remoting and logged at DEBUG level. This can safely be ignored.

Additional information: <https://jira.jboss.org/jira/browse/SOA-861>

11.4. juddi-service.sar has been removed

Previous versions of JBoss Enterprise SOA Platform shipped with two different versions of the jUDDI and Scout jars. `juddi-service.sar` has been removed to avoid conflicts with the version contained in `jbossesb.sar`.

Additional information: <https://jira.jboss.org/jira/browse/SOA-1298>

11.5. New jBPM database indexes must be created when upgrading

When upgrading to the JBoss Enterprise SOA Platform 4.2.CP04 there are several new database indexes that must be manually created in the jBPM database.

The SQL statements to do this are in the file **create-jbpm-indexes.txt** which can be found in both the **jbpm-jpd1** and **jboss-as** (**jboss-esb** in the standalone distribution) directories of the SOA Platform server . You need to run these commands on your jBPM database after upgrading your SOA Platform install.

Additional information: <https://jira.jboss.org/jira/browse/SOA-1330>

For reference the SQL commands are included here.

```
create index IDX_ACTION_REFACT on JBPM_ACTION (REFERENCEDACTION_);
create index IDX_CRTETIMERACT_TA on JBPM_ACTION (TIMERACTION_);
create index IDX_JOB_NODE on JBPM_JOB (NODE_);
create index IDX_JOB_ACTION on JBPM_JOB (ACTION_);
create index IDX_LOG_NEWBYTES on JBPM_LOG (NEWBYTEARRAY_);
create index IDX_LOG_NODE on JBPM_LOG (NODE_);
create index IDX_LOG_TASKINST on JBPM_LOG (TASKINSTANCE_);
create index IDX_LOG_TRANSITION on JBPM_LOG (TRANSITION_);
create index IDX_LOG_DESTNODE on JBPM_LOG (DESTINATIONNODE_);
create index IDX_LOG_CHILDTOKEN on JBPM_LOG (CHILD_);
create index IDX_LOG_TOKEN on JBPM_LOG (TOKEN_);
create index IDX_LOG_SWIMINST on JBPM_LOG (SWIMLANEINSTANCE_);
create index IDX_LOG_PARENT on JBPM_LOG (PARENT_);
create index IDX_LOG_VARINST on JBPM_LOG (VARIABLEINSTANCE_);
create index IDX_LOG_ACTION on JBPM_LOG (ACTION_);
create index IDX_LOG_SOURCENODE on JBPM_LOG (SOURCENODE_);
create index IDX_LOG_OLDBYTES on JBPM_LOG (OLDBYTEARRAY_);
create index IDX_TSKDEF_START on JBPM_MODULEDEFINITION (STARTTASK_);
create index IDX_TASKMGINST_TMD on JBPM_MODULEINSTANCE
  (TASKMGMTDEFINITION_);
create index IDX_NODE_SCRIPT on JBPM_NODE (SCRIPT_);
create index IDX_DECISION_DELEG on JBPM_NODE (DECISIONDELEGATION);
create index IDX_SWL_TSKMGMTDEF on JBPM_SWIMLANE (TASKMGMTDEFINITION_);
create index IDX_SWL_ASSDEL on JBPM_SWIMLANE (ASSIGNMENTDELEGATION_);
create index IDX_SWIMLANEINST_TM on JBPM_SWIMLANEINSTANCE
  (TASKMGMTINSTANCE_);
create index IDX_TASK_STARTST on JBPM_TASK (STARTSTATE_);
create index IDX_TASK_SWIMLANE on JBPM_TASK (SWIMLANE_);
create index IDX_TSK_TSKCTRL on JBPM_TASK (TASKCONTROLLER_);
create index IDX_TASK_ASSDEL on JBPM_TASK (ASSIGNMENTDELEGATION_);
create index IDX_TSKCTRL_DELEG on JBPM_TASKCONTROLLER
  (TASKCONTROLLERDELEGATION_);
create index IDX_BYTEINST_ARRAY on JBPM_VARIABLEINSTANCE (BYTEARRAYVALUE_);
```

11.6. webservice_bpel quickstart readme.txt contains inaccuracies

The file **readme.txt** included with the **webservice_bpel** quickstart contains 2 inaccuracies.

1. The download URL provided for the ActiveBpel Engine should be: <http://www.activevos.com/community-open-source-terms-conditions.php>.
2. The file specifies the requirements of "an ESB & JBossWS on JBoss AS 4.2.1.GA" and directs you to installation instructions in the file `install/readme.txt`. This file is not included and is not needed as the JBoss Enterprise SOA Platform includes these components.

Additional information: <http://jira.jboss.com/jira/browse/SOA-1134>

11.7. Hibernate UserTransaction property requirement

Changes to UserTransaction look-up have been made for compatibility with other application servers. As a result it is now necessary to set the `jta.UserTransaction` property in `hibernate.cfg.xml` to `UserTransaction`.

Additional information: <http://jira.jboss.com/jira/browse/JBPM-1179>

11.8. Quickstarts with JBPM

Quickstarts which use JBPM need to authenticate to the jbp console when they are run in the protected production environment. Here are the steps to do this.

Procedure 5. Authenticating Quickstarts to the JBPM Console

1. Create a `jboss-soa-p.4.2.0/jboss-as/samples/quickstarts/conf/quickstarts.properties` file.
2. Define the following values in `quickstarts.properties` - and provide the correct username and password (e.g. "admin").

```
jbp.console.username=  
jbp.console.password=
```

Additional information: <http://jira.jboss.com/jira/browse/SOA-579>

11.9. All QuickStarts require JBPM authentication

All QuickStarts require the authentication JBPM configuration described above as required for JBPM QuickStarts. This will be fixed in a future version.

Additional information: <http://jira.jboss.com/jira/browse/JBESB-1847>

11.10. Platform Database configuration scripts

The Getting Started Guide describes post-installation configuration of the platform databases using included scripts. These scripts expect the platform to be in the original, unmodified configuration. They will not work a second time.

Additional information: <http://jira.jboss.com/jira/browse/SOA-512>

11.11. Sybase database truncates message payload according to pagesize

When a database is created in Sybase the maximum size of text and image datatypes is set to the default page size of 2 KB. Any longer message payload is truncated without any information or warning. The database parameters have to be updated to set the @@TEXTSIZE parameter to a higher value.

The truncation behavior may also be observed in MSSQL Server if @@TEXTSIZE is changed from its default value to a smaller one.

Additional information: <http://jira.jboss.com/jira/browse/SOA-554>

11.12. Sybase database may throw Error 511 if pagesize is too small

Sybase database may fail to insert a row if the total size of the row exceeds the page size allocated for the database. A command line option passed to the dataserver command used to start the database can be used to change the page size.

Additional information: <http://jira.jboss.com/jira/browse/SOA-553>

11.13. jUDDI / Scout compatibility between JBoss SOA Platform and JBoss EAP

The behavior of JBoss Enterprise SOA Platform differs from that of JBoss Enterprise Application Platform in some JAXR Scout tests in our test-suite. This indicates differences between the jUDDI / Scout implementations that may have an effect on applications. At this stage there are no known instances of these differences affecting applications. However, if you find an instance of this difference affecting an application, please inform us.

Additional Information: <http://jira.jboss.com/jira/browse/SOA-354>.

11.14. Aggregator and other stateful actions are not supported in a clustered environment

As mentioned throughout the Programmers Guide, high-availability services within JBossESB are currently only supported if they are stateless. The Aggregator action is a stateful instance, which necessarily means that if it is used within the Action Pipeline/Chain of a service, that service is no longer stateless and therefore cannot be used in a high-availability manner.

Additional information: <http://jira.jboss.com/jira/browse/SOA-421>

11.15. Multiprocessor machines running jbpmp_orchestration2 quickstart using HSQLDB

Various errors and warnings are logged when running the `jbpmp_orchestration2` quickstart on a machine with multiple CPUs using HSQLDB or H2 as the database. The HSQLDB database is provided with the platform as an out-of-the-box db provider for testing purposes, but it is not a supported production database. These errors are not logged when using a Tier 1 supported database.

Additional Information: <http://jira.jboss.com/jira/browse/SOA-417> | <http://jira.jboss.com/jira/browse/SOA-410>

11.16. Some Gateways do not provide load balancing

In this release the following gateways do not use the `ServiceInvoker`, and therefore do not provide load balancing:

- `JmsGatewayListener.java`
- `HibernateInterceptor.java`
- `SqlTableGatewayListener.java`

Load balancing is performed when a raw message is transformed into an `ESBMessage`, or when an `ESBMessage` is sent to an ESB listener. Be aware that a raw (non-ESB) message sent through one of the above three gateways will not be load balanced.

When one of these gateways is deployed on multiple ESBs that listen to the same clustered queue they will share the load through JBM clustering, but there is no failover to another type of EPR.

These gateways will have load balancing enabled in a future release.

11.17. Development tools not bundled with JBoss Enterprise SOA Platform

This version of JBoss Enterprise SOA Platform does not bundle development tools such as the Graphical Process Designer (GPD) for JBPM-PDL or a Rules Editor plug-in for Eclipse. These development tools and others are available in JBoss Developer Studio.

11.18. JBPM Decision node expressions should not contain trailing spaces

Adding a trailing space to a decision node expression will cause an exception to be thrown. To avoid this exception decision node expressions should not have a trailing space.

Additional Information: <http://jira.jboss.com/jira/browse/SOA-450>

11.19. Issues with JBoss Developer Studio Graphical Process Designer and included examples

11.19.1. Problem generating a form for a task via (jBPM) GPD if the task properties dialog is maximized

In JBoss Developer Studio, `jbpm-jpdl-designer-3.1.2`, or `jbpm-jpdl-designer-3.1.0.SP1`, generating a form for a task while the properties dialog is maximized results in a dialog that will not respond when the OK button is clicked. Examining the log reveals a `java.lang.NullPointerException`. At this time the workaround is to generate the form without the properties dialog maximized. Additionally, you should avoid using whitespaces in task names, as this can also cause problems with form generation.

Additional Information: <http://jira.jboss.com/jira/browse/SOA-250>.

11.19.2. Right-click while editing does not produce context menu

While editing the `processdefinition.xml` file of the websale example program shipped with `jbpm-jpdl-suite-3.2.2` it is not possible to edit task properties using a right-click and the context menu.

The workaround for this issue is to navigate to the properties view using the menus and left-click, and do the editing from there.

Additional Information: <http://jira.jboss.com/jira/browse/SOA-190>.

A. Revision History

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Darrin Mison dmison@redhat.com

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