



Red Hat JBoss Fuse 6.2.1

Release Notes

What's new in Red Hat JBoss Fuse

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What's new in Red Hat JBoss Fuse

JBoss A-MQ Docs Team

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Abstract

These notes provide an overview of the changes between each release of Red Hat JBoss Fuse.

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CHAPTER 1. WHAT'S NEW

Abstract

This section describes the main features and changes in version 6.2.1.

1.1. NEW FEATURES

With the release of JBoss Fuse 6.2.1, you can now choose freely between two alternative container technologies: JEE (JBoss EAP), or OSGi (Apache Karaf). Both container types now offer a very similar technology stack (SwitchYard, Apache Camel, Apache CXF, and so on), so you can choose your preferred container type without limiting your options.

The main features in version 6.2.1 are:

- Completed merge of the two products, JBoss Fuse and JBoss Fuse Service Works, into the single new product, JBoss Fuse:
 - For next steps with the EAP/JEE container, see ["Security on JBoss EAP"](#).
 - For next steps with the Karaf/OSGi container, see ["Installation on Apache Karaf"](#).
- New patching mechanism, which is capable of patching any files in a JBoss Fuse installation, not just bundle JARs. With this new mechanism it is possible to eliminate manual steps in patch installation. See [chapter "Applying Patches"](#) in ["Configuring and Running JBoss Fuse"](#) for more details.
- Camel on EAP (Wildfly Camel) subsystem, for easier deployment of Apache Camel components on the JBoss EAP container. See [chapter "Apache Camel on Red Hat JBoss EAP"](#) in ["Deploying into a Web Server"](#) for more details.
- SwitchYard on Karaf is now fully supported. See [chapter "Getting Started with SwitchYard on Apache Karaf"](#) in ["Installation on Apache Karaf"](#) for more details.
- Transformation Tooling is now fully supported. See [chapter "Getting Started with Data Transformation"](#) in ["Tooling User Guide"](#) for more details.
- SAP Tooling is now fully supported. See [chapter "Using the JBoss Fuse SAP Tool Suite"](#) in ["Tooling User Guide"](#) for more details.
- Swagger is now fully supported. See [section "Swagger Integration"](#) in ["Apache Camel Development Guide"](#) for more details.
- The SwitchYard part of the Integration Package is now fully supported.

1.2. TECHNOLOGY PREVIEW FEATURES

This release of JBoss Fuse does not introduce any new technology preview features.



NOTE

For details on what *technical preview* means, see <https://access.redhat.com/support/offerings/techpreview/>.

1.3. IMPORTANT NOTES

Increased JAVA_MAX_MEM requirement

In JBoss Fuse 6.2.1, the recommended value for the maximum memory allocated to the JVM of the Apache Karaf container is 1024 MB. This value is specified in the ***InstallDir/bin/setenv*** file (or ***InstallDir\bin\setenv.bat*** on Windows O/S) in an Apache Karaf container installation.

For example, the default settings for the Apache Karaf JVM in the 6.2.1 distribution are now:

```
#
# The following section shows the possible configuration options for the
# default
# karaf scripts
#
JAVA_MIN_MEM=512M # Minimum memory for the JVM
JAVA_MAX_MEM=1024M # Maximum memory for the JVM
JAVA_PERM_MEM=128M # Minimum perm memory for the JVM
JAVA_MAX_PERM_MEM=256M # Maximum memory for the JVM
...
```

Migration from Apache OpenJPA to Hibernate

Since JBoss Fuse 6.2.0, the [Hibernate](#) libraries have been shipped with JBoss Fuse. If you use the Java Persistence Architecture (JPA) in your applications, it is recommended that you migrate away from OpenJPA and adopt the Hibernate JPA implementation instead. Red Hat can offer better support on the Hibernate JPA implementation. Apache OpenJPA is now deprecated and support for OpenJPA is likely to be discontinued in a future release.

CHAPTER 2. DEPRECATED AND REMOVED FEATURES

BIN/DELETEFABRIC8 SCRIPT IS DEPRECATED

The `bin/deletefabric8` script is deprecated and will be removed in a future release.

BIN/PATCH SCRIPT IS DEPRECATED

The `bin/patch` script (`bin\patch.bat` on Windows O/S) is deprecated and will be removed in a future release.

BPEL IS DEPRECATED

BPEL (based on the [Riftsaw](#) project) is no longer being actively developed and will be removed from a future release of JBoss Fuse. If you are currently using BPEL, it is recommended that you consider migrating to the Red Hat JBoss BPM Suite (which is supported through the JBoss Fuse Integration Package).

S-RAMP IS DEPRECATED

The SOA Repository Artifact Model and Protocol (S-RAMP) component is deprecated in 6.2.1 and will be removed from a future release.

DESIGN TIME GOVERNANCE IS DEPRECATED

The Design Time Governance component is deprecated in 6.2.1 and not included with the product.

APACHE OPENJPA IS DEPRECATED

The [Apache OpenJPA](#) implementation of the Java Persistence API (JPA) is deprecated in 6.2.1. It is recommended that you use the [Hibernate](#) implementation instead.

SPRING DYNAMIC MODULES (SPRING-DM) IS DEPRECATED

Spring-DM (which integrates Spring XML with the OSGi service layer) is deprecated in 6.2.1 and you should use the Blueprint framework instead. Using Blueprint does not prevent you from using the Java libraries from the Spring framework: the latest version of Spring is compatible with Blueprint.

CHAPTER 3. UNSUPPORTED FEATURES

APACHE ARIES BLUEPRINT WEB MODULE IS UNSUPPORTED

The Apache Aries [Blueprint Web](#) module is *not* supported in JBoss Fuse. The presence of an example featuring Blueprint Web in the community edition of Apache Camel (provided in **extras/apache-camel-2.15.1.redhat-621084.zip**) does *not* imply that this feature is supported in JBoss Fuse.

CHAPTER 4. KNOWN ISSUES

4.1. LIST OF KNOWN ISSUES

The following list describes known issues in version 6.2.1:

[[ENTESB-6079](#)] The domain-camel.xml in Fuse on EAP doesn't work OOTB

The `domain-camel.xml` domain configuration file in Fuse on EAP does not work at the earlier patch levels of JBoss EAP 6.4. You need to use JBoss EAP 6.4.7 or later for this configuration file to work.

[[ENTESB-4497](#)] Changes in org.ops4j.pax.logging.cfg do not propagate to newer version

After upgrading JBoss Fuse 6.2.0 to version 6.2.1 using the new patching mechanism, it is likely that you will lose any custom configuration changes to the `org.ops4j.pax.logging.cfg` file. After upgrading the container, edit the `etc/org.ops4j.pax.logging.cfg` file to re-apply your custom logging configuration.

[[ENTESB-3982](#)] If changing the BPEL data source, you may need to restart EAP

If you install a new data source for BPEL in JBoss EAP, it might be necessary to restart the JBoss EAP container—instead of simply executing `:reload`—in order for the data source to be recognized.

[[ENTESB-4408](#)] Patching functionality in Fuse Management Console (Hawtio) temporarily disabled

The patching functionality in the Fuse Management Console (Hawtio) has been temporarily disabled for this release. This is because the Hawtio UI has not been updated to use the new patching mechanism. To install Fabric patches, use the Karaf console instead. This issue will be fixed in a future release.

[[ENTMQ-1323](#)] Must not enable restartAllowed option on the Apache ActiveMQ broker

In the context of a master/slave configuration of an Apache ActiveMQ broker cluster, you must not enable the `restartAllowed` option (for example, by setting `restartAllowed=true`). When this option is enabled, it can cause a broker restart to fail.

[[ENTESB-4105](#)] Demos from the Apache Camel and Apache CXF distributions in the extras subdirectory are not supported

The `extras/` directory of your JBoss Fuse installation contains the following distributions of Apache components:

- `apache-camel-2.15.1.redhat-621084.zip`
- `apache-cxf-3.0.4.redhat-621084.zip`

Included in both of these archives are numerous examples, which have been taken from the community distribution of these components. These examples are not supported in JBoss Fuse.

[[Bug 1181457](#)] Second security vault warning is displayed even if only one vault definition is present in the server configuration

JBoss Fuse 6.2.1 uses EAP 6.4, which is known to produce the following error message:

```
PBOX000378: Attempt to create the second Security Vault
[org.picketbox.plugins.vault.PicketBoxSecurityVault] is invalid.
```

This message can be suppressed by following the instructions provided in <https://access.redhat.com/solutions/1461133>.

[[ENTESB-4291](#)] Conflict in saxon implementations (switchyard-bpel, camel-saxon)

There is a conflict in Saxon implementations when the following Karaf features are deployed together :

- **switchyard-bpel**
- **camel-saxon**

After a restart of the Apache Karaf container, however, the dependencies are sometimes resolved correctly.

[[ENTESB-4248](#)] **./bin/fuse script now creates two processes**

There is a change in behaviour of the **./bin/fuse** script since version 6.2.1. This script now creates two processes (where previously there was just one process). There is now a parent process **./bin/karaf**, which executes the Karaf console; and a child process, which executes the Karaf server in a JVM.

[[ENTESB-3938](#)] **JBoss Fuse 6.2.1 takes a long time to start up on OpenStack**

When a JBoss Fuse 6.2.1 container is deployed on RHEL Openstack Platform, it can take a long time (several minutes) for the container to start up. A workaround is to add the following option to the JVM that starts the container (for example, by setting the **JAVA_OPTS** environment variable):

```
-Djava.security.egd=file:/dev/./urandom
```

The extra dot in the pathname, as in **/./**, is required.



NOTE

The effect of the workaround is to replace the default **/dev/random** by **/dev/urandom**. The alternative is faster, but less random than **/dev/random**. This has an impact on any security packages that depend on this device to generate entropy and random numbers.

[[ENTESB-4390](#)] **Some quickstarts using SAAJ API fail on IBM JAVA**

When using the Apache Karaf container with IBM Java version 1.7.0, the following quickstarts can fail:

- **bean-service**
- **soap-attachment**

With the following error:

```
java.lang.IllegalAccessError: Class
com/sun/org/apache/xerces/internal/dom/ElementImpl illegally accessing
"package private" member of class
com/sun/org/apache/xerces/internal/dom/CoreDocumentImpl
at
```

```
com.sun.org.apache.xerces.internal.dom.ElementImpl.synchronizeData(Elme
ntImpl.java:1159)
...
```

This appears to be a problem with the IBM JDK. You can work around the problem as follows:

1. Remove **saa-j-api** from endorsed libraries:

```
rm lib/endorsed/org.apache.servicemix.specs.saa-j-api-1.3-2.5.0.jar
```

2. Before invoking the **./bin/fuse** script, set the **JAVA_OPTS** environment variable as follows:

```
JAVA_OPTS=-Xshareclasses:none
```

[[AESH-324](#)] Don't require special chars within arguments to be escaped

The S-RAMP query language currently requires you to escape special characters in a function argument. For example, in the following query you must escape the single quotes around **'submit.*'** using the backslash character:

```
/s-ramp/wsd1/Operation[xp2:matches(@name,\"submit.*\")]
```

[[ENTESB-3980](#)] ERROR: duplicate key value violates unique constraint "pg_type_typname_nsp_index"

After a clean installation of S-RAMP to JBoss EAP 6.4.0 with a PostgreSQL database and after first navigation to the **Artifacts | Dashboard** page, the following exception is thrown.

```
...
Caused by: org.postgresql.util.PSQLException: ERROR: duplicate key value
violates unique constraint "pg_type_typname_nsp_index"
  Detail: Key (typename, typnamespace)=(artificerartifact, 136381)
already exists.
  at
org.postgresql.core.v3.QueryExecutorImpl.receiveErrorResponse(QueryExecu
torImpl.java:2198)
...
```

This error has no effect on the S-RAMP functionality, however, and can safely be ignored.

[[FABRIC-963](#)] Cannot create a fabric on a Windows 7 operating system with Java 7

To connect to the ZooKeeper server, you must change the connectivity type from IPv6 to IPv4. For the detailed solution, see the following Customer Portal article: [Cannot create fabric in JBoss Fuse 6.1 Beta on Windows 7](#)

[[ENTESB-2443](#)] Google Mail API - Sending of messages and drafts is not synchronous

When you send a message or draft, the response contains a Message object with an ID. It may not be possible to immediately get this message via another call to the API. You may have to wait and retry the call.

[[ENTESB-2458](#)] Google Mail Component - Import of message throws sometimes SocketTimeoutException

Importing a message may throw a `java.net.SocketTimeoutException` if the send operation was called before. Workaround: After a send call wait for few moments before calling import.

[[ENTESB-2365](#)] Google Drive API bug - Response of permission insert operation mostly does not contain emailAddress property

Response of permission insert operation sometimes does not return `emailAddress` property even if the value of request property type was set to user. Nevertheless the permission is successfully inserted.

[[ENTESB-2332](#)] Google Drive API JSON reponse for changes returns bad count of items for the first page

Google Drive API JSON reponse for changes returns bad count of items for the first page. Setting `maxResults` for a list operation may not return all the results in the first page. You may have to go through several pages to get the complete list (that is by setting `pageToken` on new requests).

Configuring a CXF endpoint to only support a specific version of TLS/SSL

Configuring for a specific version of TLS is possible from Red Hat JBoss Fuse 6.1 rollup 2 onwards. Earlier versions of JBoss Fuse do not allow to explicitly configure a specific TLS/SSL version to be used by the CXF server. For the detailed solution, see the following Customer Portal article: <https://access.redhat.com/solutions/1314403>

[[ENTESB-3192](#)] Client session is dropped after fabric:create

The Client session is dropped after `fabric:create` is run. The workaround is to reconnect to the karaf console after fabric is created.

[[ENTESB-3039](#)] [HTTP Gateway] apis mapping rules don't work right after deployment

If the `zooKeeperPath` property in the `io.fabric8.gateway.http.mapping-apis.properties` is changed, a gateway node restart will be required.

[[ENTESB-2929](#)] can't install features camel-avro camel-hbase camel-hdfs2

`camel-avro`, `camel-hbase`, `camel-hdfs2` are not supported on Solaris / AIX. The `camel-hdfs2` feature can only run if you have `libsnappyjava.dylib` in `java.library.path`. You must manually setup `libsnappyjava.dylib` in Red Hat JBoss Fuse before installing these features.

```
JBossFuse:karaf@root> features:info camel-hdfs2
Description of camel-hdfs2 2.15.0.redhat-620133 feature
```

[[ENTESB-2924](#)] Insight - Elasticsearch: JsonPretty error: Unable to get property 'toLowerCase' of undefined or null reference (:7999:6)

Insight Elasticsearch page is not supported in IE. The error occurs when clicking rectangles with numbers at Insight - Elasticsearch page.

[[ENTESB-2773](#)] [platform AIX HPUX] camel-leveldb missing native library

The `camel-leveldb` feature is *not* supported on IBM AIX, HP-UX, and Oracle Solaris operating systems.

[[ENTESB-2770](#)] [OSE][6.2]AMQ6.2 and AMQ6.1 should allow to be installed together in OSE

It is not possible to update both Red Hat JBoss Fuse 6.1 on OSE and Red Hat JBoss Fuse 6.2 on OSE on the same node. Once you update to Red Hat JBoss Fuse 6.2 using **rpm -U** or **yum** you will no longer be able to receive updates (patches) for Red Hat JBoss Fuse 6.1 on OSE.

[[ENTESB-2513](#)] OSE Fuse JVM sometimes dies with SIGABRT

RHEL customers need to upgrade openjdk to java-1.7.0-openjdk-1.7.0.79-2.5.5.3.el6_6 or later which will fix the **SIGABRT**.

[[ENTMQ-1040](#)] Stop script ignores arguments

When shutting down a broker using the stop script, the stop script fails to work remotely.

[[ENTESB-2069](#)] Container which is created from Hawtio can not start if restarting openshift node

After restarting OpenShift, containers created from Hawtio cannot be started. This happens because the containers started before the ZooKeeper starts running will fail to start. The workaround is to wait for the start and keep restarting until we get connected to ZooKeeper.

[[ENTESB-3200](#)] fuse startup warning on java 8 - PermSize and MaxPermSize support was removed

During JBoss Fuse 6.2 startup on Java 8, the following warnings are printed to the Karaf console:

```
$FUSE_HOME/bin/fuse
OpenJDK 64-Bit Server VM warning: ignoring option PermSize=128M; support
was removed in 8.0
OpenJDK 64-Bit Server VM warning: ignoring option MaxPermSize=256M;
support was removed in 8.0
Please wait while JBoss Fuse is loading...
100%
[=====
=]
```

You can safely ignore these warnings (the **PermSize** and **MaxPermSize** JVM options are needed for Java 7, but are ignored in Java 8).

[[ENTESB-4490](#)] Integration Pack Maven Repository is missing some CXF artifacts

For users aiming to use Integration Pack with Maven:

The Integration Pack pom.xml files do not consistently define camel-cxf and cxf version. Users must therefore import the jboss-fuse-parent BOM into the **<dependencyManagement>** section of their top-level pom.xml. For example:

```
<dependencyManagement>
  ...
  <dependency>
    <groupId>org.jboss.fuse.bom</groupId>
    <artifactId>jboss-fuse-parent</artifactId>
    <version>${version.fuse.eap}</version>
    <type>pom</type>
    <scope>import</scope>
  </dependency>
```

The value of **version.fuse.eap** should be **6.2.1.redhat-084** in this instance. The Fuse Integration .bom file currently does not contain the camel-cxf and cxf dependency management.

Importing the jboss-fuse-parent as shown above is needed to enable Maven to resolve the supported versions of CXF and camel-cxf artifacts.

CHAPTER 5. RESOLVED ISSUES

5.1. GENERAL - 6.2.1

Table 5.1, “General Issues Resolved in 6.2.1” lists the issues resolved in version 6.2.1.

Table 5.1. General Issues Resolved in 6.2.1

Issue Number	Description
ENTESB-2323	Show 'Command not found: fabric:welcome' error when ssh into container
ENTESB-3099	Quickstarts should build without warnings; most should work without fabric
ENTESB-3223	Most Fuse iTests fail on windows
ENTESB-3522	Move Repository Data Stores to SAP Configuration to support Blueprint
ENTESB-3556	Fuse Welcome screen should only display the create fabric if no fabric exists
ENTESB-3571	Fabric: Profile "Quickstarts/Fuse/camel.box" can't be loaded
ENTESB-3607	Expose IDoc packages in SAP Camel Component bundle
ENTESB-3642	Fix type converters in SAP Camel Component
ENTESB-3681	Not All Cipher Algorithms Work For Encrypting Property Placeholders
ENTESB-3684	New changes are not getting reflected If Switchyard Quickstart are modified and deployed to Fuse 6.2.
ENTESB-3709	Non admin user unable to browse ActiveMQ Queue in Hawtio
ENTESB-3753	RBAC does not work in Hawtio for Camel routes
ENTESB-3831	Eliminate external requests from builds
ENTESB-3863	Switchyard quickstarts - a few folders are empty
ENTESB-3898	Use hawt-log4j to avoid CWE-117
ENTESB-3908	Missing riftsaw DDLs for Fuse on Karaf
ENTESB-3943	[6.2 P2] After applying patch to Fuse, hawtio says JBoss A-MQ
ENTESB-3972	switchyard demo policy-security-cert causes error in fuse log
ENTESB-3981	Patch script throws Could not find or load main class org.fusesource.patch.client.Main

Issue Number	Description
ENTESB-3982	DDL scripts for BPEL does not work correctly on EAP
ENTESB-4062	Quickstarts fail when fabric8:deploy is used
ENTESB-4129	CXF quickstarts don't work due to missing requirements
ENTESB-4206	Add missing instruction to install camel-jackson feature in camel-odata quickstart README
ENTESB-4298	camel-hazelcast stopped to work in Fuse 6.2.1 ER4
ENTESB-4301	hibernate version should probably be aligned to version 4.2.20.Final-redhat-1
ENTESB-4329	Cxf quickstarts stopped working in Fuse 6.2.1 ER4
ENTESB-4415	Multiple Error messages while updating JBoss A-MQ using new patch mechanism
ENTESB-4480	[Patch mechanism] Missing startup bundles when migrating container joined via fabric:join command
ENTMQ-1313	Bump pom files for NMS and CMS versions for 6.2.1

5.2. MESSAGING - 6.2.1

Table 5.2, “Messaging Issues Resolved in 6.2.1” lists the issues resolved in version 6.2.1.

Table 5.2. Messaging Issues Resolved in 6.2.1

Issue Number	Description
AMQ-4000	Durable subscription not getting unregistered on networked broker
AMQ-4705	Add keep alive support to shared file locker
AMQ-5266	Stuck Messages in Single Broker when using JDBC Persistent Store
AMQ-5303	MQTT Subscriptions on VirtualTopic prefixed destinations failed retained tests.
AMQ-5368	SSL handshake stalls broker with NIO
AMQ-5400	Unable to keep message order using ActiveMQ-RAR
AMQ-5605	High CPU load when using failover transport in network connector

Issue Number	Description
AMQ-5811	NoSuchElementException during resource adapter shutdown in EAP 6
AMQ-5841	activemq script returns a non zero exit code for successful operations
AMQ-5853	JDBC store - pending high priority messages batch cannot be consumed after low priority message batch
AMQ-5854	Duplicate messages when failover is done during prepare phase of two phase commit.
AMQ-5863	Composite Send with useCache=false leaves messages pending till restart
AMQ-5864	KahaDB recovery with persisteRedeliveryFlag=true can lead to stuck message
AMQ-5888	Transport Connection to: tcp://127.0.0.1:41062 failed: java.io.EOFException shows up in log when closing connection normally
AMQ-5907	Pull consumer can hang in receive if RedeliveryPolicy is configured with max redeliveries
AMQ-5916	Creation of durable subscriber fails via broker AdminView due to lack of SecurityContext on ConnectionContext
AMQ-5943	network bridge fails when using jaasDualAuthenticationPlugin
AMQ-5951	failover maxReconnect=0 url can block on reconnect
AMQ-5953	XA Transaction 'XID:[...]' has not been started. xaErrorCode:-4 on MessageAck
AMQ-5983	Restoring MQTT client virtual topic queue uses wrong prefix.
AMQ-5984	Unsafe use of access-order LinkedHashMap via ActiveMQMessageAuditNoSync - can lead to loop and hang
AMQ-5994	Broker can't recover Durable Subscription on index deletion
AMQ-6002	MQTT virtual topic strategy doesn't escape client id properly
AMQ-6010	AMQP SSL Transport "leaking" currentTransportCounts
AMQ-6013	Restrict classes that can be serialized in ObjectMessages
AMQ-6014	Offline Durable Topic Subscription exceeds memory limits
AMQ-6016	java.lang.IllegalArgumentException: Comparison method violates its general contract!
AMQ-6017	Make ioBufferSize configurable for nio transport

Issue Number	Description
AMQ-6021	mqtt+nio+ssl don't work with certificate authentication properly
AMQ-6032	Properties on scheduled messages can get lost on dispatch
AMQ-6033	mkahaDB,shared-file-locker - broker not shutting down when it loses the lock
AMQ-6039	KahaDB data log archiving does not work accross different physical file systems
ENTESB-3681	Not All Cipher Algorithms Work For Encrypting Property Placeholders
ENTESB-4398	Arbitrary remote code execution with InvokerTransformer
ENTMQ-1074	pom.xml files missing from examples in extras/apache-activemq-5.11.0.redhat-620133-bin.zip
ENTMQ-1121	Remove activemq-rar.txt file from apache-activemq zip in extras
ENTMQ-1124	activemq-5.11.0.redhat-6-2-0-patch-platform hangs on windows
ENTMQ-1180	Offline Durable Topic Subscription exceeds memory limits
ENTMQ-780	NPE Thrown By DemandForwardingBridge

5.3. SWITCHYARD

Table 5.3, “SwitchYard Issues Resolved in 6.2.1” lists the issues resolved in version 6.2.1.

Table 5.3. SwitchYard Issues Resolved in 6.2.1

Issue	Description
ENTESB-2991	Bundle "jetty-all-server" should import package "org.apache.karaf.jaas.boot.principal"
ENTESB-3162	Some quickstarts refer to wrong EAP modules
ENTESB-3181	Failing test in camel-saxon quickstart
ENTESB-3630	Check JON Plugin works with Fuse ServiceWorks Domain when supported
ENTESB-3809	New deployment of another SwitchYard application disables ExchangeInterceptors
ENTESB-3822	Smooks transformer needs "org.milyn" OSGi package
ENTESB-3971	KarafSecurityProvider is not compatible with CertificateLoginModule, authorization is not possible

Issue	Description
ENTESB-3972	switchyard demo policy-security-cert causes error in fuse log
ENTESB-4032	demos/policy-transaction - add instruction for fuse
ENTESB-4076	policy-security-basic unable to authorize
ENTESB-4110	Error with jca-inflow-hornetq quickstart client
ENTESB-4113	javax.xml.transform.TransformerFactoryConfigurationError: Provider net.sf.saxon.TransformerFactoryImpl not found
ENTESB-4241	SwitchYard Resteasy component must use JAX-RS 1.1 in Fuse on Karaf
ENTESB-4251	Cannot build switchyard with -Pjavadoc
ENTESB-4320	jca-inflow-activemq quickstart not working
ENTESB-4356	Switchyard JPA does not work on IBM JDK
ENTESB-4398	Arbitrary remote code execution with InvokerTransformer

5.4. ROUTING

Table 5.4, “Routing Issues Resolved in 6.2.1” lists the issues resolved in version 6.2.1.

Table 5.4. Routing Issues Resolved in 6.2.1

Issue	Description
AMQ-5652	IdGenerator not optimal in port restricted enviroments.
CAMEL-7921	The soapAction HTTP header is not correctly set when running the CXF client in POJO mode using Camel
CAMEL-8471	Port IdGenerator not optimal in port restricted environments.
CAMEL-8756	KafkaConsumer doesn't stop consuming when suspended, preventing graceful route shutdown
CAMEL-8764	Camel-Spring-Redis: Jedis bundle require commons-pool2
CAMEL-8770	Camel Blueprint - depends-on does not work
CAMEL-8780	Camel exec component have trouble to load arguments list from message header

Issue	Description
CAMEL-8785	StackOverFlowError using Custom InterceptStrategy
CAMEL-8798	weaveAddLast throwing UnsupportedOperationException when route have a ChoiceDefinition
CAMEL-8816	Elasticsearch component fails in an OSGi environment due to missing names.txt
CAMEL-8871	null body after exception from transform method
CAMEL-8885	ConsumeLockEntity without ConsumeDelete
CAMEL-8898	ElementNotFoundException on LinkedIn authentication
CAMEL-8902	Camel Facebook - Endpoint URI must contain a parameter
CAMEL-8916	Support autoCreate=true in ftp/ftps/sftp consumers
CAMEL-8945	Loop - Should break out looping if exception happened during routing
CAMEL-8949	Netty 3 component spins on receiving TCP RST
CAMEL-8950	Injected Quartz2 scheduler doesn't have access to CamelContext in jobs
CAMEL-8984	BlueprintCamelContext OSGi service is not unregistered when context is stopped
CAMEL-8988	Can't manually trigger quartz2 jobs
CAMEL-8989	SJMS drops messages with null body even if allowNullBody is true
CAMEL-9005	Yammer - Endpoint "received" does not work
CAMEL-9031	Dependency missing in camel-kafka feature
CAMEL-9049	Websocket Component not shutting down embedded jetty server on component shutdown
CAMEL-9076	camel-freemarker version mismatch on karaf
CAMEL-9087	camel-pgevent payload always null
CAMEL-9092	MQTT consumer receives duplicate messages after broker restart
CAMEL-9094	Can't use custom FTPParser on OSGI
CAMEL-9099	[camel-script] wrong detection of script engine factories
CAMEL-9164	errorHandlerRef causes NoSuchBeanException on uninstall

Issue	Description
CAMEL-9208	camel-netty4-http does not resolve nettyHttpBinding option
CAMEL-9223	IllegalArgumentException when reverting fields using property placeholders
CAMEL-9290	netty4 consumer in clientMode only reconnects once
ENTESB-1564	"NoSuchComponentException: No component with id 'blueprintBundle' could be found"
ENTESB-3005	Swagger module does not produce a "models" section in JSON output
ENTESB-3046	Memory leak on windows in SSHD ServerSession
ENTESB-3178	Camel Blueprint - depends-on does not work
ENTESB-3322	Elasticsearch component fails in an OSGi environment due to missing names.txt
ENTESB-3448	Two dependency chains when installing switchyard-jpa feature
ENTESB-3535	Camel should provide Osgi-friendly ParserFactory for FTP component
ENTESB-3681	Not All Cipher Algorithms Work For Encrypting Property Placeholders
ENTESB-3727	Camel MQTT Consumes Duplicate Messages After Broker Restart
ENTESB-3745	Misaligned versions for the Camel Spring Redis Feature
ENTESB-3813	camel-freemarker feature pulls in old version of freemarker
ENTESB-3847	Blueprint camel route with errorHandlerRef to an explicitly configured transaction error handler bean throws exception when container shutdown
ENTESB-3869	[camel-script] wrong detection of script engine factories
ENTESB-3899	Upgrade mvel version to 2.2.4
ENTESB-3993	FileChangedReadLockMinAgeTest fails intermittently
ENTESB-3999	JmsRequestReplyTempQueueMultipleConsumersTest.testTempQueueRefreshed fails intermittently
ENTESB-4001	NettyHttpSSLHandshakeErrorTest is failing
ENTESB-4398	Arbitrary remote code execution with InvokerTransformer
ENTESB-4415	Multiple Error messages while updating JBoss A-MQ using new patch mechanism

Issue	Description
ENTESB-3457	Fuse camel-sap SapTransactionalDocListServerComponentConfigurationAndDocumentationTest test fails

5.5. WEB SERVICES

Table 5.5, “Web Services Issues Resolved in 6.2.1” lists the issues resolved in version 6.2.1.

Table 5.5. Web Services Issues Resolved in 6.2.1

Issue	Description
CXF-6583	MessageListenerTest#testLocalTransaction fails intermittently
ENTESB-3267	Swagger module does not produce a "models" section consistently when several modules are deployed
ENTESB-3681	Not All Cipher Algorithms Work For Encrypting Property Placeholders
ENTESB-3700	cxfr-http-async throws NPE in the logs when Fuse 6.2 is restarted
ENTESB-3728	CXF's SwaggerFeature: SetScannerInterceptor causes NPE
ENTESB-3831	Eliminate external requests from builds
ENTESB-3923	NCDFE in JAX-WS schema validation on IBM java
ENTESB-3977	CXF JwsJoseCookBookTest and JwsCompactReaderWriterTest fail under OpenJDK7 with security exceptions
ENTESB-3985	should set bundle ClassLoader to the ExtensionManagerBus created by this bundle
ENTESB-4003	CXF ProviderTest and ProviderServiceFactoryTest have failures on HP/UX
ENTESB-4004	CXF CachedWriterTest and CachedOutputStreamTest fail on AIX
ENTESB-4005	CXF RequestResponseTest fails on Windows
ENTESB-4006	CXF ManagedEndpointsTest fails intermittently
ENTESB-4009	CXF WSAPureWsdITest.testBasicInvocationTimeouts fails on Windows
ENTESB-4010	CXF GCMTTest and JweCompactReaderWriterTest fail on Solaris JDK7
ENTESB-4011	CXF JAXRSJweJwsTest, JAXRSJwsJsonTest, and JAXRSXmlSecTest have multiple failures on AIX

Issue	Description
ENTESB-4033	CXF ProtocolVariationsTest#testRM10WSA200408Decoupled fails intermittently
ENTESB-4039	CXF DefaultHostnameVerifierTest fails on Solaris with JDK7
ENTESB-4040	CXF FileCertificateRepoTest and X509UtilsTest fail on Solaris JDK7
ENTESB-4047	CXF has multiple crypto/certificate related bugs on Solaris with JDK7
ENTESB-4237	CXF JavaDocProviderTest fails with JDK8
ENTESB-4398	Arbitrary remote code execution with InvokerTransformer

5.6. FUSE ON JBOSS EAP

Table 5.6, “Fuse on EAP Issues Resolved in 6.2.1” lists the issues resolved in version 6.2.1.

Table 5.6. Fuse on EAP Issues Resolved in 6.2.1

Issue	Description
ENTESB-3251	Switchyard integrations tests fail in fuse-eap
ENTESB-3477	Cannot access tranql-connector-1.2 for fuse-eap distro build
ENTESB-3734	fuse-eap-installer does not work on AIX
ENTESB-3763	Missing switchyard-bpel-console in Fuse EAP installer
ENTESB-3928	fuse-eap-installer doesn't work when EAP's path contains spaces
ENTESB-3961	Remove OpenJPA Riftsaw DDLs
ENTESB-3982	DDL scripts for BPEL does not work correctly on EAP
ENTESB-4064	Clustered SCA binding does not work - wrong ha and full-ha configuration

5.7. CONTAINER - 6.2.1

Table 5.7, “Container Issues Resolved in 6.2.1” lists the issues resolved in version 6.2.1.

Table 5.7. Container Issues Resolved in 6.2.1

Issue Number	Description
ENTESB-3034	"Port Already In Use" exception occurs for port 44444

Issue Number	Description
ENTESB-3157	JPA EntityManagerFactory Service not created on Fuse 6.2.0.Final
ENTESB-3430	jdbc:databases shows duplicated datasources (all with error status) when using xa transactions
ENTESB-3499	MapMetadataImpl not found by org.apache.cxf.cxf-rt-transport-http-jetty
ENTESB-3506	"Exit" command is not available on fabric child containers
ENTESB-3526	Declarative service properties not shown in Hawtio console
ENTESB-3591	multiple log files for fabric child instance
ENTESB-3592	"NoSuchBeanException: No bean could be found in the registry for: ..." when deploying multiple SwitchYard applications with Camel services
ENTESB-3681	Not All Cipher Algorithms Work For Encrypting Property Placeholders
ENTESB-3738	Fuse 6.2 Ships With AspectJ 1.7.4, Which Is Not Java 8 Compatible
ENTESB-3802	Errors in Fuse container log when securing JMX over SSL
ENTESB-3848	JVM Xalan implementation is no longer overridden in 6.2
ENTESB-3870	bin/client doesn't work anymore
ENTESB-3898	Use hawt-log4j to avoid CWE-117
ENTESB-3997	admin:create && admin:start doesn't work after 6.2 P2 patch
ENTESB-4114	"Bean Validation provider can not be found" when using bean validation in CXF
ENTESB-4119	[Jaas, Karaf] under load periodically get exception javax.security.auth.login.LoginException: Can't get user XXX roles: null
ENTESB-4130	[Logs] align standalone and fabric format options
ENTESB-4301	hibernate version should probably be aligned to version 4.2.20.Final-redhat-1
ENTESB-4304	karaf-2.4.0.redhat-6-2-x-patch-checkin is failing with multiple test failures
ENTESB-4310	Karaf EnterpriseFeaturesTest.testWeldFeature fails
ENTESB-4318	remove duplicate version of openjpa feature

Issue Number	Description
ENTESB-4398	Arbitrary remote code execution with InvokerTransformer
ENTESB-4458	bin\client.bat doesn't work on windows
KARAF-2428	The ScrServiceMBean should be hidden.
KARAF-3147	Local JMX connect is not possible
KARAF-3261	jdbc command (using JdbcConnector.java) does not honour service ranking and throws IllegalArgumentException instead
KARAF-3494	client should not fail if it can't read etc/org.apache.karaf.shell.cfg file
KARAF-3625	Password encryption doesn't work
KARAF-3885	Memory leak when use interactive client shell
KARAF-3886	should escape specify characters in ROLE names
KARAF-3892	System properties missing when logging in remotely
KARAF-3899	PID file for child instances not getting written when dir has spaces
KARAF-3945	Don't try and set permgen settings in Java 8
KARAF-3946	LDAP role mapping too sensitive to extra whitespace
KARAF-3965	Calling Ctrl+D in Karaf console, when karaf asks if it is necessary to display all console commands, causes console not responding forever
KARAF-4026	Karaf wrapper:install produces a SPARC32 binary on Solaris x86_64
KARAF-4066	Features command bundle should recover if FeatureService unavailable initially
KARAF-4094	Multiple shutdown ports opened on 2.4.x when using file lock

5.8. FUSE FABRIC - 6.2.1

Table 5.8, “Fuse Fabric Issues Resolved in 6.2.1” lists the issues resolved in version 6.2.1.

Table 5.8. Fuse Fabric Issues Resolved in 6.2.1

Issue Number	Description
ENTESB-1450	Hawtio allows a profile to be deleted that is assigned to a container

Issue Number	Description
ENTESB-1831	EIP Quickstart fails with repeated errors
ENTESB-2323	Show 'Command not found: fabric:welcome' error when ssh into container
ENTESB-2436	jboss-fuse/fabric8 can't be built using Maven 3.2.5
ENTESB-2932	Brokers are stopped after zk connection timeout and reconnect
ENTESB-3005	Swagger module does not produce a "models" section in JSON output
ENTESB-3046	Memory leak on windows in SSHD ServerSession
ENTESB-3099	Quickstarts should build without warnings; most should work without fabric
ENTESB-3138	SSHD exceptions logged at INFO level
ENTESB-3151	Fail to provision ssh container - invalid zip
ENTESB-3172	FUSE "master" component conflicts with camel-quartz2
ENTESB-3313	Command fabric:join doesn't work when using manualip resolver
ENTESB-3314	Command fabric:join can join container with wrong name to fabric
ENTESB-3398	Profile-refresh help: Unable to load description from classpath:profileRefresh.txt
ENTESB-3408	RH Access: Session expired while working with RH Access
ENTESB-3420	HPUX: Adding feature to profile results in StackOverflowException
ENTESB-3425	Cannot get Insight perspective in Fuse Management Console
ENTESB-3440	On Windows container-create-child root container causes NullPointerException with jboss-fuse-full-6.2.0.redhat-128.zip
ENTESB-3448	Two dependency chains when installing switchyard-jpa feature
ENTESB-3454	[MQ-Gateway][IBM JDK] java.lang.NoClassDefFoundError: org.apache.qpid.proton.engine.Sasl
ENTESB-3461	mq ssl gateway times out connections after 5 seconds
ENTESB-3470	Fabric Pax-Web port range ignored when creating a child container
ENTESB-3490	Profile-scale --help has the default mentioned twice

Issue Number	Description
ENTESB-3493	Fabric - Wiki: Assigned to X containers... link contains sum of deployed profiles of all versions instead of the selected version
ENTESB-3495	profile-download causes issues when anything but version 1 is available
ENTESB-3497	fabric:cloud-* commands are not available
ENTESB-3499	MapMetadataImpl not found by org.apache.cxf.cxf-rt-transport-http-jetty
ENTESB-3500	Inconsistent Naming of Containers
ENTESB-3505	Importing 6.1 fabric profiles is not working properly
ENTESB-3517	CXF Rest endpoints don't all show up on the APIs page
ENTESB-3534	Profile-edit -c prints null version in the output
ENTESB-3556	Fuse Welcome screen should only display the create fabric if no fabric exists
ENTESB-3561	Fabric managed containers donot show complete list of different services(icons) in Hawtio GUI after stopping and starting the containers.
ENTESB-3569	Container-create-child --ensemble-server does not create a new container
ENTESB-3578	should refresh bundles after bundles started in fabric agent
ENTESB-3579	fabric8 io.fabric8.tooling.archetype.generator.ArchetypeTest is failing
ENTESB-3580	fabric8 io.fabric8.itests.smoke.karaf.EnsembleTest fail
ENTESB-3581	Creating SSH container from win to RHEL leaves temp(?) file in remote home
ENTESB-3588	Description of ensemble-password is outdated
ENTESB-3591	multiple log files for fabric child instance
ENTESB-3592	"NoSuchBeanException: No bean could be found in the registry for: ..." when deploying multiple SwitchYard applications with Camel services
ENTESB-3603	Unable to find parent version of created version
ENTESB-3606	Fabric does not recognize master correctly after mq-create with custom parent profile
ENTESB-3617	mq-create does not validate container name

Issue Number	Description
ENTESB-3655	Deployment fails when a fabric project is deployed using fabric8-maven-plugin with fabric8.jolokiaUrl parameter for passing credentials.
ENTESB-3662	ExampleCamelCxfTest fails with Blueprint/Agent deadlock
ENTESB-3677	FileWatcherTest fails sometimes
ENTESB-3681	Not All Cipher Algorithms Work For Encrypting Property Placeholders
ENTESB-3682	Fabric --min-port and --zookeeper-server-port option are ignored when the ensemble is resized
ENTESB-3683	Fabric port service not preventing port clashes
ENTESB-3685	[regression] bundle karaf ssh shell doesn't start on IBM JDK when fuse starts
ENTESB-3687	Profiles not automatically inheriting from the default profile
ENTESB-3709	Non admin user unable to browse ActiveMQ Queue in Hawtio
ENTESB-3731	[6.2.1-014] mvn: protocol no longer uses user's local repo
ENTESB-3753	RBAC does not work in Hawtio for Camel routes
ENTESB-3756	Remote child container fails to start if remote root is created at a patched version
ENTESB-3780	Some bundles had status changed from "Active" to "Resolved" after fabric was created
ENTESB-3841	Remote containers created after 6.2 P1, do not receive updated jre.properties, karaf.jar or io.fabric.properties
ENTESB-3846	ManagedServiceFactory does not expose OSGi Services after Server restart
ENTESB-3851	Remote ssh deployment is sensitive to network issues
ENTESB-3858	EnsembleAddAction.applyEnsembleConfiguration Throws StringIndexOutOfBoundsException
ENTESB-3871	[6.2.1.ER2] Version-create --description returns UnsupportedOperationException
ENTESB-3894	Multiple fabric profiles are provisioned on a container
ENTESB-3896	Add -o to the unzip command in the script to provision remote containers
ENTESB-3898	Use hawt-log4j to avoid CWE-117

Issue Number	Description
ENTESB-3899	Upgrade mvel version to 2.2.4
ENTESB-3900	WAR deployments not working on a Fabric child container
ENTESB-3913	IllegalStateException: Cannot obtain profile write lock in time
ENTESB-3948	Fuse 6.2 does not fully respect java.rmi.server.hostname
ENTESB-3949	6.2 Patching ensemble containers
ENTESB-3992	GATEWAY-HTTP doesnt work as expected with loadbalance option set to sticky.
ENTESB-4023	ssh provisioning is slow in an env without internet access
ENTESB-4079	Fix risk of stale info in ZK for Git Master
ENTESB-4131	Creating a Fabric Ensemble causes javax.security.auth.login.FailedLoginException: User doesn't exist
ENTESB-4139	org.vertx.java.core.impl.EventLoopContext closeHooks retention
ENTESB-4154	[Patch mechanism] Unable to install new patch management on windows
ENTESB-4159	Fabric-Camel not recreating all endpoints during cluster restart
ENTESB-4168	Fabric - Problem with port allocation in presence of --min-port and --max-port
ENTESB-4184	[Patch mechanism 050] Unable to install patch on windows
ENTESB-4200	Version of commons-configuration shipped is inconsistent with parent bom
ENTESB-4215	Nexus Pom validation fails for fabric8 Red Hat GSS Support code
ENTESB-4224	java.lang.NoClassDefFoundError: javax.management.NotificationListener not found by io.fabric8.fabric-api
ENTESB-4235	Documentation for console command `ensemble-password --help` is not relevant and needs to be updated with proper text.
ENTESB-4258	[6.2.1.069] Container-edit-jvm-options not working
ENTESB-4277	patch:rollback \${patch-name} removes the new patching mechanism
ENTESB-4288	It Seems Only Admin Users can Deploy to Fabric

Issue Number	Description
ENTESB-4295	[Patch mechanism] Command patch:fabric-install works on nonexistent version
ENTESB-4315	[Patch mechanism] Patch:list command doesn't make sense in fabric environment
ENTESB-4362	jgit errors affecting patch management
ENTESB-4367	General patching problems on Windows
ENTESB-4374	Fabric - Services - MQ, Wiki: Patch branches are visible as versions
ENTESB-4387	[Patch mechanism] Command patch:fabric-synchronize has wrong description
ENTESB-4393	[Patch mechanism] Provision status freezes on installing when upgrading child container
ENTESB-4398	Arbitrary remote code execution with InvokerTransformer
ENTESB-4415	Multiple Error messages while updating JBoss A-MQ using new patch mechanism
ENTESB-4422	[Patch mechanism] Option --upload in command patch:fabric-install doesn't work on Windows
ENTESB-4431	[Patch mechanism] Unable to upgrade ssh container with build 073 (container doesn't start)
ENTESB-4432	[Patch mechanism] Cannot create child or ssh container after 6.2.0 to 073 migration in offline environment
ENTESB-4451	[Patch mechanism] Upgrading child container reverts user.properties to karaf default version
ENTESB-4462	[Patch mechanism] Unable to rollback child container to 1.0 after upgrade
ENTESB-4469	NullPointerException during patch:install
ENTESB-4470	Invalid boolean value exception after rollback
ENTESB-4472	[Patch mechanism] Upgrading SSH container results into wrong merged system.properties and general problem with reconnecting to fabric
ENTESB-4474	patch 6.2 GA >> 621 build 73 >> build 078 fails on "auth" bundle on windows
ENTESB-4485	Provisioning containers fails with a java.lang.NullPointerException for Maven-URL
ENTESB-4491	[patching] NPE in bin/setenv resolver
ENTMQ-1107	Unable to apply patch to container with slave broker waiting to obtain lock

Issue Number	Description
ENTMQ-1142	embedded broker does not restart after Zookeeper connection is restored.
ENTMQ-1156	[ER3] Broker in fabric stops after modification of network properties
ENTMQ-1314	PatchException: Invalid baseline-root-amq-6.2.1.redhat-071 specified
FABRIC-1238	AMQ MasterSlave does not handle zookeeper disconnect
FABRIC-1247	Fabric child container does not default to parent containers resolver
FABRIC-1250	fabric:join allows containers to join with upper-case container names
FABRIC-1251	Provisioning an empty profile on container results in a NullPointerException
FUSEDOC-992	Problem with installing Postgresql JDBC Driver, Version 9.4
KARAF-3102	"New" resolver leaves some bundles in resolved state and install unexpected bundles
KARAF-3837	The installation of the activemq feature is not stable wrt to the resolver

5.9. MANAGEMENT CONSOLE - 6.2.1

Table 5.9, “Issues Resolved in 6.2.1:” lists the issues resolved in 6.2.1.

Table 5.9. Issues Resolved in 6.2.1:

Issue Number	Description
ENTESB-1410	Fabric - Runtime - APIs: Sorting in table doesn't work when clicking column header
ENTESB-2798	Fabric - Scaling - Status: Change mouse pointer image to "hand" when over profile name
ENTESB-2974	[OSE][6.2]The button of 'start' is grey when moving cursor on the "stopped" container
ENTESB-3111	Dashboard : "Add view to dashboard" link is clickable if disabled
ENTESB-3128	Camel: "Rest Services" page scrolls down periodically
ENTESB-3183	Camel: "Show this view in full screen" action doesn't work always correctly

Issue Number	Description
ENTESB-3253	ActiveMQ: Message lost when moving from and to the same queue
ENTESB-3260	ActiveMQ - queue - Browse: Checkbox for all messages stays checked even if some messages don't
ENTESB-3266	Duplicate labels in JMX Property dialog
ENTESB-3287	Health: Too long text rows hidden behind the edge of a widget
ENTESB-3346	OSGi - Bundles: ActiveMQ checkbox, activemq-karaf is missing
ENTESB-3376	Camel - Operations: Text field with operation result is editable
ENTESB-3390	Fabric - Camel - Edit Chart: Each "View chart" click doubles items count in a chart
ENTESB-3419	Fabric - Dashboard: Clicking dashboard in the bar doesn't always open that dashboard
ENTESB-3442	OSGi - Features: Feature install button doesn't have an icon and has wrong dimensions
ENTESB-3444	OSGi - Framework: Dialogs close without change when Enter pressed
ENTESB-3445	Osgi - Framework: Setting Current Framework Start Level <80 causes exception and disables Hawtio
ENTESB-3451	Fabric - Wiki: User is forced to append .txt extension when creating new text file
ENTESB-3502	Loss Of Select Radio Button for Container
ENTESB-3512	In Hawtio, The List of Child Containers, In Containers Page, Is No Longer Indented
ENTESB-3515	Hawtio provides delete button for root container but it cannot be delete
ENTESB-3526	Declarative service properties not shown in Hawtio console

Issue Number	Description
ENTESB-3568	Hawtio Renders IllegalStateException For A-MQ Slave Broker Attributes
ENTESB-3586	Hawtio sorts containers based on status, then by name
ENTESB-3622	Insufficient role exception should have user friendly error message
ENTESB-3844	Host identification color in Hawtio preferences should not be gray after selection
ENTESB-3872	Main menu - bad readability of items when highlighted on Red Hat theme
ENTESB-3943	[6.2 P2] After applying patch to Fuse, hawtio says JBoss A-MQ
ENTESB-3957	OSGi - Bundles: Clicking links in a Bundle details page opens the welcome page instead of collapsing a pane content
ENTESB-3958	OSGi - Declarative Services: Links in DS detail go to the welcome page instead of collapsing a pane
ENTESB-3970	Fabric - Profiles: Missing several profile icons
ENTESB-4408	[Patch mechanism] Change hawtio patching to new patch mechanism

5.10. JON PLUG-INS

Table 5.10, “JON Plug-In Issues Resolved in 6.2.1” lists the issues resolved in version 6.2.1.

Table 5.10. JON Plug-In Issues Resolved in 6.2.1

Issue	Description
FUSEJON-110	Camel Endpoint can not be discovered if its generated resource key exceeds 500 bytes
FUSEJON-114	Unable to discover [JBoss Fuse Container JVM]

CHAPTER 6. ENHANCEMENTS

6.1. GENERAL - 6.2.1

Table 6.1, “General Enhancements in 6.2.1” lists the enhancements in version 6.2.1.

Table 6.1. General Enhancements in 6.2.1

Enhancement	Description
ENTESB-2678	container-create-ssh should zip up current distro rather than shipping fabric8-karaf distro
ENTMQ-993	Revise current standalone (non-fabric) JBoss A-MQ default transport connectors configuration

6.2. MESSAGING - 6.2.1

Table 6.2, “Messaging Enhancements in 6.2.1” lists the enhancements in version 6.2.1.

Table 6.2. Messaging Enhancements in 6.2.1

Enhancement	Description
AMQ-5639	Allow advisory messages to traverse a broker network
AMQ-5656	Support selective MBean creation
AMQ-5794	Cleanup connections that open but don't initiate a protocol handshake.
AMQ-5831	Revisit topic statistics
AMQ-5876	improve performance of TextFileCertificateLoginModule when many entries are in the "textfiledn.user " file
AMQ-5892	Unnecessary stack trace in case of authorization failure
AMQ-5918	Update the AMQP example to use the new QPid-JMS client.
AMQ-5920	Improve performance of virtual topic fanout
AMQ-5997	MQTT legacy client support
AMQ-6030	STOMP: Add support for produce and consume from composite destinations
AMQ-2106	Allow broker to evenly distribute message groups among consumers
AMQ-5008	Support for certificate revocation checking (with patch)

Enhancement	Description
AMQ-5792	Add a SubscriptionStatistics implementation to Subscriptions
AMQ-5837	Add inflight message size to SubscriptionStatistics
AMQ-5938	Add remove(messageId) jmx operation to offline durable subscription
ENTESB-3220	joda-time two dependency chains camel-spring-ldap

6.3. SWITCHYARD

Table 6.3, “SwitchYard Enhancements in 6.2.1” lists the enhancements in version 6.2.1.

Table 6.3. SwitchYard Enhancements in 6.2.1

Enhancement	Description
ENTESB-3759	Reuse dozer module provided by WFC
ENTESB-3762	Reuse WFC modules - Part2
ENTESB-3784	Reuse camel-sap module provided by WFC
ENTESB-3860	missing switchyard-camel-amqp-binding bundle
ENTESB-4196	Align versions of JBoss Logging distributed in Fuse to 3.3.0.Final
ENTESB-4448	Upgrade SwitchYard to OverlordCommons 2.0.18.Final-redhat-2

6.4. ROUTING

Table 6.4, “Routing Enhancements in 6.2.1” lists the enhancements in version 6.2.1.

Table 6.4. Routing Enhancements in 6.2.1

Enhancement	Description
CAMEL-7985	camel-test-blueprint - Upgrading to newer felix fails with NPE in fileinstall
CAMEL-8527	Processor in routes should be IdAware so we can easily map from/to its model definition
CAMEL-8835	Replace PojoSR with felix-connect
CAMEL-8845	Property placeholder - service lookup should use underscore instead of dash
CAMEL-8894	Support to reconnect the server in ClientMode.

Enhancement	Description
CAMEL-8946	Original SSLHandshakeException was overridden by Camel Netty Http producer
CAMEL-8948	CamelBlueprintTestSupport tests have issues with namespace handlers
CAMEL-8976	netty-http - Allow to configure max size of headers
CAMEL-9003	Allow multiple producers with differing request timeouts
CAMEL-9066	Include any headers unmarshalled by SoapJaxbDataFormat in content marshalled by the same.
CAMEL-9086	Add support for relative path requests in netty http
CAMEL-9193	Aggregator in preCompletion mode should also timeout if the new group does not receive further messages
CAMEL-9335	camel-netty-http - Suppress Connection reset by peer WARNs
CAMEL-7433	Please create a preCompletionPredicate for camel aggregator
ENTESB-2882	can't install feature camel-infinispan
ENTESB-3372	gson two dependency chains jclouds, camel-couchdb
ENTESB-3735	camel-hbase doesn't work after fuse restart if camel-hdfs2 is also installed
CAMEL-8772	camel-salesforce - Add documentation to its endpoint options
CAMEL-9265	Use servicemix-specs version of jsr311-api
ENTESB-4196	Align versions of JBoss Logging distributed in Fuse to 3.3.0.Final

6.5. WEB SERVICES

Table 6.5, “Web Services Enhancements in 6.2.1” lists the enhancements in version 6.2.1.

Table 6.5. Web Services Enhancements in 6.2.1

Enhancement	Description
ENTESB-3676	cxfrt-ws-addr bundle should also export org.apache.cxf.ws.addressing.impl package

6.6. FUSE ON JBOSS EAP

Table 6.6, “Fuse on EAP Enhancements in 6.2.1” lists the enhancements in version 6.2.1.

Table 6.6. Fuse on EAP Enhancements in 6.2.1

Enhancement	Description
ENTESB-3729	Add wildfly-camel quickstart test jar to fuse-eap test suite
ENTESB-3921	WildFly-Camel & Fuse EAP builds do not reference the correct EAP 6.4 maven artifacts

6.7. CONTAINER - 6.2.1

Table 6.7, “Container Enhancements in 6.2.1” lists the enhancements in version 6.2.1.

Table 6.7. Container Enhancements in 6.2.1

Enhancement	Description
ENTESB-3539	introduce karaf.secured.command.compulsory.roles system property
ENTESB-4132	Support restarting the Karaf JVM and updating it's lib directory.
KARAF-2438	Improve ScrServiceMBean to display more details about SCR components
KARAF-3368	Support reference:file:xxx urls in startup.properties
KARAF-3823	introduce karaf.secured.command.compulsory.roles system property
KARAF-3859	bin/client script should go in interactive way to prompt the password when the "-u" option is used
KARAF-3860	fix Log lower level root cause exception in LDAPLoginModule.doLogin()
KARAF-3959	make jdbc:create work better with MS SQL Server
KARAF-3962	Client can't use properties defined in custom.properties
ENTESB-3717	Backport PAXURL-313 to Fuse 6.2
ENTESB-3877	Reinstate openjpa feature that was removed in 6.2
ENTESB-4045	Upgrade CDI 1.2 Weld implementation to version 2.3.0.Final
ENTESB-4052	add a dummy KarafMBeanServerBuilder back and restore the bin/karaf script
ENTESB-4196	Align versions of JBoss Logging distributed in Fuse to 3.3.0.Final
ENTESB-4332	Update weld feature to use CDI 1.2 and Weld 2.3

6.8. FUSE FABRIC - 6.2.1

Table 6.8, “Fabric Enhancements in 6.2.1” lists the enhancements in version 6.2.1.

Table 6.8. Fabric Enhancements in 6.2.1

Enhancement	Description
ENTESB-3416	Make sure all bundles are in the Active state by default
ENTESB-1235	insight + camel does not work
ENTESB-4269	Camel / Fabric8 features should use servicemix-specs version of jsr311-api
ENTESB-3494	Update Aether libraries (0.9.0.M2 has serious bug)
ENTESB-3717	Backport PAXURL-313 to Fuse 6.2
ENTESB-3904	fix test failure in patch-itests
ENTESB-4242	Disable patch migrator build

6.9. MANAGEMENT CONSOLE - 6.2.1

Table 6.9, “Enhancements in 6.2.1” lists the enhancements in 6.2.1.

Table 6.9. Enhancements in 6.2.1

Enhancement	Description
ENTESB-1487	Repositories indexed by the Hawtio Maven Indexer Plugin should be easily configured
ENTESB-1694	Create shading of profile list in Create container/add profiles to container similar as in in Wiki page

6.10. JON PLUG-INS

Table 6.10, “JON Plug-In Enhancements in 6.2.1” lists the enhancements in version 6.2.1.

Table 6.10. JON Plug-In Enhancements in 6.2.1

Enhancement	Description
FUSEJON-112	Add support for monitoring JBoss Fuse services for ActiveMQ, Camel and CXF deployed in JBoss EAP 6, JBoss AS7 or Wildfly8
FUSEJON-117	Add support for monitoring AMQ broker storage in JON

CHAPTER 7. SUPPORTED CONFIGURATIONS

7.1. INFORMATION ON THE CUSTOMER PORTAL

For information about supported configurations, standards, and components in version 6.2.1, see the following Customer Portal articles:

- [Red Hat JBoss Fuse Supported Configurations](#)
- [Red Hat JBoss Fuse Supported Standards](#)
- [Red Hat JBoss Fuse Component Details](#)
- [Red Hat JBoss A-MQ Supported Configurations](#)
- [Red Hat JBoss A-MQ Supported Standards and Protocols](#)