



# Red Hat JBoss Fuse 6.3

## Release Notes

What's new in Red Hat JBoss Fuse



# Red Hat JBoss Fuse 6.3 Release Notes

---

What's new in Red Hat JBoss Fuse

JBoss A-MQ Docs Team

Content Services

[fuse-docs-support@redhat.com](mailto:fuse-docs-support@redhat.com)

## Legal Notice

Copyright © 2016 Red Hat.

The text of and illustrations in this document are licensed by Red Hat under a Creative Commons Attribution–Share Alike 3.0 Unported license ("CC-BY-SA"). An explanation of CC-BY-SA is available at

<http://creativecommons.org/licenses/by-sa/3.0/>

. In accordance with CC-BY-SA, if you distribute this document or an adaptation of it, you must provide the URL for the original version.

Red Hat, as the licensor of this document, waives the right to enforce, and agrees not to assert, Section 4d of CC-BY-SA to the fullest extent permitted by applicable law.

Red Hat, Red Hat Enterprise Linux, the Shadowman logo, the Red Hat logo, JBoss, OpenShift, Fedora, the Infinity logo, and RHCE are trademarks of Red Hat, Inc., registered in the United States and other countries.

Linux<sup>®</sup> is the registered trademark of Linus Torvalds in the United States and other countries.

Java<sup>®</sup> is a registered trademark of Oracle and/or its affiliates.

XFS<sup>®</sup> is a trademark of Silicon Graphics International Corp. or its subsidiaries in the United States and/or other countries.

MySQL<sup>®</sup> is a registered trademark of MySQL AB in the United States, the European Union and other countries.

Node.js<sup>®</sup> is an official trademark of Joyent. Red Hat is not formally related to or endorsed by the official Joyent Node.js open source or commercial project.

The OpenStack<sup>®</sup> Word Mark and OpenStack logo are either registered trademarks/service marks or trademarks/service marks of the OpenStack Foundation, in the United States and other countries and are used with the OpenStack Foundation's permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation, or the OpenStack community.

All other trademarks are the property of their respective owners.

## Abstract

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

## Table of Contents

<b>CHAPTER 1. WHAT'S NEW</b> .....	<b>3</b>
1.1. NEW FEATURES	3
1.2. IMPORTANT NOTES	3
<b>CHAPTER 2. DEPRECATED AND REMOVED FEATURES</b> .....	<b>6</b>
2.1. CUMULATIVE LIST OF DEPRECATED 6.X FEATURES	6
2.2. APRIL 2017 6.3 ADDENDUM	6
2.3. OCTOBER 2016 GA	7
<b>CHAPTER 3. UNSUPPORTED FEATURES</b> .....	<b>9</b>
APACHE ARIES BLUEPRINT WEB MODULE IS UNSUPPORTED	9
THE PHP SCRIPTING LANGUAGE IS NOT SUPPORTED IN APACHE CAMEL ON APACHE KARAF	9
THE PYTHON SCRIPTING LANGUAGE IS NOT SUPPORTED IN APACHE CAMEL ON APACHE KARAF	9
THE INTEGRATION PACK IS NOT SUPPORTED IN FABRIC DEPLOYMENTS	9
<b>CHAPTER 4. KNOWN ISSUES</b> .....	<b>10</b>
4.1. CVE SECURITY VULNERABILITIES	10
4.2. LIST OF KNOWN ISSUES	10
<b>CHAPTER 5. RESOLVED ISSUES</b> .....	<b>18</b>
5.1. GENERAL - 6.3.0	18
5.2. MESSAGING - 6.3.0	20
5.3. SWITCHYARD	26
5.4. ROUTING	28
5.5. CAMEL ON JBOSS EAP	48
5.6. WEB SERVICES	50
5.7. FUSE ON JBOSS EAP	69
5.8. CONTAINER - 6.3.0	69
5.9. FUSE FABRIC - 6.3.0	73
5.10. MANAGEMENT CONSOLE - 6.3.0	82
5.11. JON PLUG-INS	86
<b>CHAPTER 6. ENHANCEMENTS</b> .....	<b>87</b>
6.1. GENERAL - 6.3.0	87
6.2. MESSAGING - 6.3.0	87
6.3. SWITCHYARD	90
6.4. ROUTING	91
6.5. WEB SERVICES	124
6.6. FUSE ON JBOSS EAP	135
6.7. CONTAINER - 6.3.0	135
6.8. FUSE FABRIC - 6.3.0	137
6.9. MANAGEMENT CONSOLE - 6.3.0	138
6.10. JON PLUG-INS	139
<b>CHAPTER 7. SUPPORTED CONFIGURATIONS</b> .....	<b>140</b>
7.1. INFORMATION ON THE CUSTOMER PORTAL	140



# CHAPTER 1. WHAT'S NEW

## Abstract

This section describes the main features and changes in version 6.3.

## 1.1. NEW FEATURES

The main new features in version 6.3 are:

- JBoss Fuse tooling is available in [Red Hat JBoss Developer Studio](#) starting with Developer Studio 11.0. Previously, Fuse tooling was available in Red Hat JBoss Developer Studio Integration Stack.
- The look and feel of the Fuse tooling Camel route editor has been revised.
- The Camel CDI component has been rewritten to provide better integration with the [JSR 299: Contexts and Dependency Injection](#) (CDI) programming model. See [chapter "Camel CDI" in "Deploying into Apache Karaf"](#) for more details.
- New Camel Braintree component (**camel-braintree**) provides integration with various payment systems, including PayPal. See [chapter "Braintree" in "Apache Camel Component Reference"](#) for more details.
- New Camel ServiceNow component (**camel-servicenow**) provides integration with the ServiceNow REST API. See [chapter "ServiceNow" in "Apache Camel Component Reference"](#) for more details.
- RH-SSO adapter for JBoss Fuse is now supported in combination with the 6.3.0 Roll Up 2 patch version of JBoss Fuse. See the section [JBoss Fuse Adapter](#) from the *RH-SSO 7.1 Securing Applications and Services Guide* for more details.



### NOTE

JBoss Fuse 6.3.0 Roll Up 1 is the minimum required version, but 6.3.0 Roll Up 2 is recommended.

## 1.2. IMPORTANT NOTES

### Oracle JDK 1.7 is incompatible with Maven central repository

Due to recent changes in the security requirements for connecting to the Maven central repository, Oracle JDK 1.7 is no longer compatible with Maven central and is unable to download Maven artifacts. We recommend that you upgrade to Oracle JDK 1.8 to avoid this issue. See [Section 4.2, "List of Known Issues"](#) for more details.

### New Maven repository

Since JBoss Fuse 6.3, the JBoss Fuse Maven artifacts are available *only* from the following Maven repositories:

- <https://maven.repository.redhat.com/ga>

- <https://maven.repository.redhat.com/earlyaccess/all>

Hence for JBoss Fuse 6.3, you need to edit your Maven **settings.xml** file, replacing the old **repo.fusesource.com** repository URLs (at <https://repo.fusesource.com/nexus/content/repositories/releases> and <https://repo.fusesource.com/nexus/content/groups/ea>) with the new Maven repository URLs.



#### NOTE

Older versions of JBoss Fuse (prior to 6.3) continue to use the old Maven repositories.

## ActiveMQ runtime can now be wired to JMS 2.0 API bundle in OSGi

In JBoss Fuse 6.3, the ActiveMQ runtime has been modified so that it is compatible with and can be wired to the JMS 2.0 API bundle. This does *not* imply that ActiveMQ supports JMS 2.0. In fact, ActiveMQ still supports JMS 1.1 only. This change does mean, however, that it is now possible to deploy an ActiveMQ broker (which is a JMS 1.1 application) alongside a JMS 2.0 compliant application in the same OSGi container. This can be useful, for example, if you want to deploy two different messaging products in the same Apache Karaf container.

## Upgraded Jetty from 8.1.x to 9

In the Apache Karaf container, Jetty (which provides the default HTTP servlet container for Karaf) has been upgraded from Jetty 8.1.x to Jetty 9. This has a significant impact on the Jetty container configuration, affecting settings in the **etc/org.ops4j.pax.web.cfg** file, in the **etc/jetty.xml** file, and in the Camel Jetty endpoint. For more details, see [chapter "Securing the Jetty HTTP Server" in "Security Guide"](#) and [chapter "Securing the Camel Jetty Component" in "Security Guide"](#) .

## Apache Karaf package name changed from jboss-fuse-full to jboss-fuse-karaf

The package name for the Apache Karaf distribution of JBoss Fuse has changed from **jboss-fuse-full-ProductVersion.zip** to **jboss-fuse-karaf-ProductVersion.zip** in this release.

## CXF security changes

Note the following important changes to CXF security in this release:

- The STS (Security Token Service) now issues tokens using the RSA-SHA256 signature algorithm by default (previously RSA-SHA1), and the SHA-256 digest algorithm (previously SHA-1).
- The SAML/XACML functionality previously available in the **cxfrt-security** module is now in the **cxfrt-security-saml** module.

## New interceptor required for transactional RFC SAP endpoints

A new interceptor object is provided in JBoss Fuse 6.3, which is needed to configure transactional RFC destinations properly for the Camel SAP component. For details, see [section "Interceptor for tRFC and qRFC destinations" in "Apache Camel Component Reference"](#).

## Make Quickstart Examples Available

In previous releases, profiles for quickstart example were available by default. The new default behavior is that profiles for quickstart examples are not available in a new fabric. To create a fabric in which you



can run the quickstart examples, edit the `$FUSE_HOME/fabric/io.fabric8.import.properties` file by uncommenting the line that starts with the following:

**# importProfileURLs =**

If you create a fabric without doing this and you want to run the quickstart examples, follow these steps to make them available:

1. Edit the `$FUSE_HOME/quickstarts/pom.xml` file to add a fabric I/O plugin, for example:

```
<plugin>
  <groupId>io.fabric8</groupId>
  <artifactId>fabric8-maven-plugin</artifactId>
  <version>1.2.0.redhat-630187</version>
</plugin>
```

2. In the `$FUSE_HOME/quickstarts` directory, change to the directory for the quickstart example you want to run, for example:

**cd beginner**

3. In that directory, execute the following command:

**mvn fabric8:deploy**

You would need to run this command in each directory that contains a quickstart example that you want to run.

## CHAPTER 2. DEPRECATED AND REMOVED FEATURES

### Abstract

After recent planning activities for JBoss Fuse 7.0, additional features have been deprecated for 7.0, as listed under [Section 2.2, "April 2017 6.3 Addendum"](#).

If you need any assistance or have any questions about the upcoming changes in Fuse 7, please contact [support@redhat.com](mailto:support@redhat.com).

### 2.1. CUMULATIVE LIST OF DEPRECATED 6.X FEATURES

A complete list of the features that are deprecated from the JBoss Fuse 6.x family of products (including those from previous minor releases) is given in the knowledge base article, [JBoss Fuse 6.x Deprecated and Removed Features](#).

### 2.2. APRIL 2017 6.3 ADDENDUM

Features that were deprecated in the context of planning for the next major release, 7.0, of JBoss Fuse.

#### Embedded ActiveMQ broker will be removed in 7.0

In JBoss Fuse 7.0, JBoss Fuse on Karaf will no longer provide an embedded ActiveMQ Broker. Customers should connect to a supported remote broker directly. For more information on our supported brokers please refer to the [messaging lifecycle](#).

#### Geronimo transaction manager will be replaced in 7.0

In JBoss Fuse 7.0, the Geronimo transaction manager in the Karaf container will be replaced by [Narayana](#).

#### JBoss Fuse integration pack will be removed in 7.0

In JBoss Fuse 7.0, support for running rules and processes will be provided by components shipped with Red Hat JBoss BPM Suite and Red Hat JBoss BRMS.

#### Jetty container will be replaced in 7.0

In JBoss Fuse 7.0, the Jetty container will be replaced by [Undertow](#). Initially, this change applies only to internal use of the Jetty container (for example, in the Karaf container). Other Jetty components will be removed in a future release

#### Karaf console commands for child container administration will be removed in 7.0

In JBoss Fuse 7.0, the Karaf console commands for child container administration (commands prefixed by **admin:**, such as **admin:create**, **admin:list**, and so on) will be removed.

#### SwitchYard will be removed in 7.0

In JBoss Fuse 7.0, SwitchYard will be removed, and you should use Apache Camel directly instead. For more detailed information, see the knowledge base article, [SwitchYard Support Plan After Releasing JBoss Fuse 7](#).

## 2.3. OCTOBER 2016 GA

Features that were deprecated or removed at the time of the JBoss Fuse release in October 2016.

### Support for Fabric8 1.x will be removed in the next major release of JBoss Fuse

In the next major release of JBoss Fuse (planned as JBoss Fuse 7.0), Fabric8 v1 will be replaced by Fuse Integration Services (FIS), which includes components of Fabric8 v2 technology. FIS provides a set of tools and Docker-formatted images that enable development, deployment, and management of integration microservices within OpenShift.

Although FIS has a different architecture, it fulfills the same provisioning, automation, central configuration and management requirements that Fabric8 v1 provides. For more information, please see [Red Hat JBoss Fuse Integration Services 2.0 for OpenShift](#).

Please contact Fuse Support with any questions or concerns.

### bin/deletefabric8 script has been removed

The **bin/deletefabric8** script has been removed in this release.

### Camel components for Google App Engine are deprecated

The [GAE components](#) for Apache Camel are deprecated in JBoss Fuse 6.3 and will be removed from a future release of JBoss Fuse.

### Camel Netty component is deprecated

The Camel Netty component and the SwitchYard Camel Netty component are both deprecated in JBoss Fuse 6.3 and will be removed in a future release of JBoss Fuse. It is recommended that you use the Camel Netty4 component instead.

### Camel jBPM component is deprecated

The Camel jBPM component (**camel-jbpm**) is deprecated in JBoss Fuse 6.3 and will be removed in a future release of JBoss Fuse.

### Camel LevelDB component is deprecated on all operating systems except for Linux

Since JBoss Fuse 6.3, the Camel LevelDB (**camel-leveldb**) component is deprecated on all operating systems except for Red Hat Enterprise Linux. In future, the Camel LevelDB component will be supported only on Red Hat Enterprise Linux.

### Tanuki based wrapper for installing JBoss Fuse as a service is deprecated

The Tanuki based wrapper scripts—generated using the **wrapper:install** Karaf console command—for installing JBoss Fuse as a service are deprecated since JBoss Fuse 6.3 and will be removed in a future release of JBoss Fuse. To install the Apache Karaf container as a service, it is recommended that you use the new **karaf-service-\*.sh** scripts from the **bin/contrib** directory instead.

## Smooks is deprecated

Since JBoss Fuse 6.3, the Smooks component for SwitchYard is deprecated and will be removed in a future release of JBoss Fuse.

## 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).

## Design Time Governance is deprecated

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

## Runtime Governance is deprecated.

Since JBoss Fuse 6.3, the Runtime Governance (RTGov) component is deprecated and will be removed in a future release of JBoss Fuse.

## S-RAMP is deprecated

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

## Spring Dynamic Modules (Spring-DM) is deprecated

Spring-DM (which integrates Spring XML with the OSGi service layer) is deprecated since 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.

## Apache OpenJPA is deprecated

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

## 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-2.17.0.redhat-630xxx.zip**) does *not* imply that this feature is supported in JBoss Fuse.

### THE PHP SCRIPTING LANGUAGE IS NOT SUPPORTED IN APACHE CAMEL ON APACHE KARAF

The PHP scripting language is *not* supported in Camel applications on the Apache Karaf container, because there is no OSGi bundle available for PHP. The PHP scripting language is deprecated in Camel applications on the JBoss EAP container and on the Spring Boot container.

### THE PYTHON SCRIPTING LANGUAGE IS NOT SUPPORTED IN APACHE CAMEL ON APACHE KARAF

The Python scripting language is *not* supported in Camel applications on the Apache Karaf container, because there is no OSGi bundle available for Python. The Python scripting language is deprecated in Camel applications on the JBoss EAP container and on the Spring Boot container.

### THE INTEGRATION PACK IS NOT SUPPORTED IN FABRIC DEPLOYMENTS

The Integration Pack is *not* supported in Fabric and cannot be installed in a fabric container. For more details, see [ENTESB-5796](#).

## CHAPTER 4. KNOWN ISSUES

### 4.1. CVE SECURITY VULNERABILITIES

As a middleware integration platform, JBoss Fuse can potentially be integrated with a large number of third-party components. It is not always possible to exclude the possibility that some third-party dependencies of JBoss Fuse could have security vulnerabilities. This section documents known security vulnerabilities affecting third-party dependencies of JBoss Fuse 6.3.

#### [[CVE-2017-12629](#)] Multiple CVEs related to jackson-databind security vulnerability

Applications that use the FasterXML **jackson-databind** library to instantiate Java objects by deserializing JSON content are potentially vulnerable to a *remote code execution* attack. The vulnerability is not automatic, however, and it can be avoided if you take the appropriate mitigation steps.

At a minimum, the following prerequisites must all be satisfied before an attack becomes possible:

1. You have enabled polymorphic type handling for deserialization of JSON content in **jackson-databind**. There are two alternative ways of enabling polymorphic type handling in Jackson JSON:
  - a. Using a combination of the **@JsonTypeInfo** and **@JsonSubTypes** annotations.
  - b. By calling the **ObjectMapper.enableDefaultTyping()** method. This option is particularly dangerous, as it effectively enables polymorphic typing globally.
2. There are one or more *gadget classes* in your Java classpath, which have not yet been blacklisted by the current version of **jackson-databind**. A gadget class is defined as any class that performs a sensitive (potentially exploitable) operation as a side effect of executing a constructor or a setter method (which are the methods that can be called during a deserialization). The gadget blacklist maintained by the Jackson JSON library is the last line of defence against the remote code execution vulnerability.

It is the existence of a large number of gadget classes which explains why there are many individual CVEs related to the **jackson-databind** vulnerability. There are different CVEs related to different kinds of gadget class.

If you do need to use the **jackson-databind** library in your application, the most important measure you can take to mitigate the risk is this: *avoid polymorphic type handling in Jackson JSON and on no account should you call the **ObjectMapper.enableDefaultTyping()** method.*

#### [[CVE-2020-11972](#)] CVE-2020-11972 camel-rabbitmq: camel: RabbitMQ enables Java deserialization by default which could lead to remote code execution [fuse-6.3.0]

In the version of Apache Camel provided with Fuse 6.3 (which is Camel 2.17), the Camel RabbitMQ component enables java deserialization, by default, without any means of disabling which can lead to arbitrary code being executed. To avoid this security vulnerability, we recommend that you do not use the Camel RabbitMQ component in Fuse 6.3.

### 4.2. LIST OF KNOWN ISSUES

The following list describes known issues in version 6.3:

### [[ENTESB-13343](#)] Maven resolution of remote repository artifacts are broken on Oracle JDK7 [and IBM JDK7]

Due to recent changes in the security requirements for connecting to the Maven central repository, Oracle JDK 1.7 and IBM JDK7 is no longer compatible with Maven central and is unable to download Maven artifacts. Specifically, Maven resolution through the internal Fuse Maven proxy from HTTPS secured repositories is broken on Oracle JDK7 and IBM JDK7. We recommend that you upgrade to Oracle JDK 1.8 to avoid this issue.

### [[ENTESB-11757](#)] [QUICKSTART] camel-linkedin quickstart is not working

In Fuse 6.3, the Camel LinkedIn component is no longer able to communicate with the LinkedIn server, because it is implemented using the LinkedIn Version 1.0 API, which is no longer supported by LinkedIn. The Camel LinkedIn component will be updated to use the Version 2 API in a future patch release of Fuse 6.3.

### [[SWITCHYARD-2936](#)] Add support for Integration Pack with Kie 6.4.0

For SwitchYard projects in JBoss Fuse 6.3, and in the associated Integration Pack, there is no longer a backward compatibility layer, so we have added support for the Integration Pack BPM & Rules components (Fuse-specific) as well as the SwitchYard ones (more basic components for community releases). When you specify an Integration Pack and Kie version for your SwitchYard project, the appropriate components are selected. There is a known issue, however, if you select both varieties of BPM or Rules components and don't have Integration Pack versions specified. If you accidentally check both of them and are not using the Integration Pack, simply uncheck the **(Integration Pack)** version on the **Capabilities** page. Other supported components are not affected.

### [[ENTESB-6038](#)] Error loading situations when using Postgres

RTGov 6.2.1 and 6.3 configured with Postgres for the OverlordRTGov datasource fails to load situations in the RT-Gov UI. You can work around this problem by modifying the **standalone-full.xml** configuration file as follows:

```
<configuration name="overlord-rtgov">
  <properties>

    <!-- ADD THIS -->
    <property name="hibernate.transaction.factory_class"
value="org.hibernate.transaction.JTATransactionFactory"/>
    <property name="hibernate.transaction.manager_lookup_class"
value="org.hibernate.transaction.JBossTransactionManagerLookup"/>

    <!-- REMOVE/COMMENT THIS -->
    <!--property name="JpaStore.jtaPlatform"
value="org.hibernate.service.jta.platform.internal.JBossAppServerJtaPlatform"/-->

    <!-- ... other properties -->
  </properties>
</configuration>
```

### [[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-4995](#)] Classloader leak in wildfly-camel ContextCreateHandlerRegistryService

JBoss Fuse on JBoss EAP with a small metaspace can lead to **OutOfMemoryError**. SwitchYard is unaffected by this.

### [[ENTESB-6033](#)] Qpid jms client hangs when used in camel route

The Camel AMQP component, which is based on the Qpid JMS client, freezes when it is used in a Camel route. This is because the associated **camel-amqp** Karaf feature depends on the wrong version of the Qpid Proton-J library. This issue will be fixed in an upcoming patch.

### [[ENTESB-4850](#)] No bean could be found in the registry for: ConnectionFactory of type: javax.jms.ConnectionFactory

In certain circumstances, when deploying multiple Camel JMS endpoints into a JBoss EAP container, the following error can be thrown:

```
org.apache.camel.NoSuchBeanException: No bean could be found in the registry for:
ConnectionFactory of type: javax.jms.ConnectionFactory
```

This error can occur either in a SwitchYard application or in a Camel on EAP (Wildfly Camel) application. There are two known workarounds for this issue:

#### Workaround 1: Use the **org.jboss.server.bootstrap.maxThreads** system property

If you face this issue, you can start JBoss EAP with the **org.jboss.server.bootstrap.maxThreads** system property with a value less than or equal to **3** to resolve the issue, as follows:

```
$ ./bin/standalone.sh -c standalone-full.xml -Dorg.jboss.server.bootstrap.maxThreads=3
```

Note that the default value of **org.jboss.server.bootstrap.maxThreads** is (number of processors)\*2 and setting it to a value lower than the default may slow the startup time of JBoss EAP.

#### Workaround 2: Use the **org.switchyard.deployment.disableAutoStartup** SwitchYard domain property

If the first workaround does not work for you, you can then disable auto start-up of SwitchYard bindings by setting the **org.switchyard.deployment.disableAutoStartup** domain property to **true** to resolve the issue.

```
<switchyard xmlns="urn:switchyard-config:switchyard:1.0" xmlns:sca="http://docs.oasis-
open.org/ns/opencsa/sca/200912" [...]>
  [...]
  <domain>
    <properties>
      <property name="org.switchyard.deployment.disableAutoStartup"
value="{org.switchyard.deployment.disableAutoStartup:true}"/>
    </properties>
  </domain>
</switchyard>
```

Note that if you disabled auto start-up of SwitchYard bindings, you need to manually start the bindings after the applications are deployed.

### [[ENTESB-5653](#)] Profile-import fails on Windows paths (with backslashes)



When using the **profile-import** Karaf console command with Windows paths (using backslashes), the command fails, because the backslashes are left out. The workaround is to use forward slashes instead. For example:

```
JBossFuse:karaf@root> profile-import file:C:/jboss-fuse-6.3.0.redhat-xxx/out.zip
```

#### [[ENTESB-5231](#)] PHP script language does not work

The PHP scripting language is *not* supported in Camel applications on the Apache Karaf container, because there is no OSGi bundle available for PHP.

#### [[ENTESB-5232](#)] Python language does not work

The Python scripting language is *not* supported in Camel applications on the Apache Karaf container, because there is no OSGi bundle available for Python.

#### [[ENTESB-5911](#)] bpel-jms-binding is not working on solaris11sparc

The **bpel-jms-binding** example from Apache Karaf **quickstarts/switchyard** does not work on the Solaris 11 operating system.

#### [[ENTESB-5892](#)] Jetty - Applications: Links in the list are wrong

In the Fuse Management Console (Hawtio console) on the Apache Karaf container, when you navigate to the **Jetty** menu tab, the URL links for the Jetty applications shown on this page are incorrect.

#### [[ENTESB-5117](#)] [[patching](#)] Add patch feature by default to admin:create child containers

By default, child containers created using the **admin:create** Karaf console command do not support the new JBoss Fuse patching mechanism, because the requisite **patch** feature is not available. You can work around this limitation by creating a child container using the following command:

```
admin:create --featureURL mvn:io.fabric8.patch/patch-features/1.2.0.redhat-630xxx/xml/features -  
-feature patch test
```

Where 1.2.0.redhat-630xxx might need to be replaced by whatever version of fabric8 you are using in your container.

#### [[ENTESB-5911](#)] bpel-jms-binding is not working on solaris11sparc

The **bpel-jms-binding** quickstart for SwitchYard on Apache Karaf (in the **quickstarts/switchyard/bpel-jms-binding** directory) does not work on Solaris 11, due to a **ClassNotFoundException** error.

#### [[ENTESB-5892](#)] Jetty - Applications: Links in the list are wrong

If you click on the **Jetty** tab of the Fuse Management Console (Hawtio), the links appearing in the **Url** column of this page are incorrect.

#### [[ENTESB-4297](#)] Conflict in Saxon implementations (switchyard-bpel, camel-saxon)

In the Apache Karaf container, the **switchyard-bpel** feature and the **camel-saxon** feature cannot both be installed at the same time, because they use conflicting versions of the Saxon parsing library. In testing we have seen classpath issues such as the following when both features are installed together:

```
Caused by: java.lang.NoSuchMethodException:
```

```
net.sf.saxon.Controller.setMessageEmitter(net.sf.saxon.event.Receiver)
at java.lang.Class.getMethod(Class.java:1786)
at org.apache.camel.builder.xml.XsltBuilder.doStart(XsltBuilder.java:616)
... 42 more
```

#### [[ENTESB-5447](#)] Cannot add openjpa, camel-hbase, or camel-hdfs features to featuresBoot

If you add any of the features, **openjpa**, **camel-hbase**, or **camel-hdfs**, to **featuresBoot** in the **etc/org.apache.karaf.features.cfg** file, this will result in an OSGi wiring error. All of these features are deprecated in any case.

#### [[CAMEL-10237](#)] Problem setting JMSX JMS properties on OracleAQ

The Camel JMS component is affected by a regression error that can cause problems integrating with Oracle AQ. This issue has already been fixed in the Apache Camel community project and the fix will be made available in a patch for JBoss Fuse 6.3.

#### [[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 disabled since JBoss Fuse 6.2.1. 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.

#### [[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.IllegalAccessException: 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(ElementImpl.java:1159)
  ...

```

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

1. Remove **saaj-api** from endorsed libraries:

```
rm lib/endorsed/org.apache.servicemix.specs.saaj-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/wsd/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(QueryExecutorImpl.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).

**[[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 **libsnaappyjava.dylib** in `java.library.path`. You must manually setup **libsnaappyjava.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-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**.

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

For users intending to use the Integration Pack with Maven, the Integration Pack **pom.xml** files do not consistently define the versions for the **camel-cxf** and **cxf** Maven artifacts. For an explanation of how to set up the Maven dependencies in this case, see [chapter "Configuring Maven Dependencies" in "Integration Guide"](#).

**[[FUSED-1716](#)] The examples/samples projects is missing from `apache-camel-2.17.0.redhat-630187/apache-cxf-3.1.5.redhat-630187.zip`**

JBoss Fuse 6.3 does not provide a code sample for how to deploy an Apache CXF web service endpoint. Documentation for an unsupported example has been removed from the end of the JBoss Fuse 6.3 document, "Deploying into a Web Server".

There is an [Apache Camel CXF JAX-WS example that is available from the upstream Wildfly Camel project](#). This example requires the Undertow servlet container, which is not supported in JBoss Fuse 6.3. Red Hat expects to provide a supported sample in a future release.

## CHAPTER 5. RESOLVED ISSUES

### 5.1. GENERAL - 6.3.0

Table 5.1, “General Issues Resolved in 6.3.0” lists the issues resolved in version 6.3.0.

Table 5.1. General Issues Resolved in 6.3.0

Issue Number	Description
<a href="#">ENTESB-1769</a>	"Error in initialization script: Command not found: shell:if" after fabric:create on fuse with P2
<a href="#">ENTESB-3546</a>	Cannot access LinkedIn API with camel-linkedin
<a href="#">ENTESB-3939</a>	fuse EsbProfileRedeployTest fails consistently
<a href="#">ENTESB-4160</a>	BPEL - Domain mode - Deployment throws MySQLIntegrityConstraintViolationException
<a href="#">ENTESB-4415</a>	Multiple Error messages while updating JBoss A-MQ using new patch mechanism
<a href="#">ENTESB-4435</a>	Fix hardcoded link to activemq nms zip
<a href="#">ENTESB-4480</a>	[Patch mechanism] Missing startup bundles when migrating container joined via fabric:join command
<a href="#">ENTESB-4495</a>	Hibernate and Bundle ClassLoaders out of sync on Bundle Refresh
<a href="#">ENTESB-4622</a>	Please update file name from jboss-fuse-full to jboss-fuse-karaf
<a href="#">ENTESB-4711</a>	[JBoss A-MQ distro, Fabric, offline] A-MQ distro will not create a fabric when no access to internet
<a href="#">ENTESB-4732</a>	JBoss Fuse 6.2.1 quickstarts/custom readme should be updated to indicate jboss fuse zip needs to be added to local repo
<a href="#">ENTESB-4770</a>	fix swagger dependencies in Fuse BOM
<a href="#">ENTESB-4773</a>	Corrupted Screenshots in camel-sap-binding quickstart
<a href="#">ENTESB-4786</a>	Fuse quickstart builds fail with missing pom
<a href="#">ENTESB-4804</a>	Corrupt war file in jboss-fuse-full-6.2.1.redhat-084.zip (GA)
<a href="#">ENTESB-4875</a>	Update dependencies for CXF secure-soap quickstart
<a href="#">ENTESB-4876</a>	CXF features fails to install on jboss-fuse-full-6.3.0.redhat-012.zip

Issue Number	Description
<a href="#">ENTESB-4903</a>	[Solaris 11] local: not found when starting fuse
<a href="#">ENTESB-4925</a>	don't start camel-jetty8 in fuse by default
<a href="#">ENTESB-4961</a>	Fuse and A-MQ both have the amq:(esb:)check-for-user and amq:(esb:)create-admin-user
<a href="#">ENTESB-5003</a>	[Win+Karaf-service] Can't run .exe on win server 2012r2
<a href="#">ENTESB-5105</a>	Some profiles in fabric doesn't work out of the box in Fuse running in offline env
<a href="#">ENTESB-5140</a>	Verify that quickstarts do not refer to SNAPSHOT versions
<a href="#">ENTESB-5172</a>	Unable to install cxf-secure-rest quickstart
<a href="#">ENTESB-5213</a>	Bump licence headers to 2016
<a href="#">ENTESB-5484</a>	security-propagation-jms connector.jks needs to be copied differently
<a href="#">ENTESB-5630</a>	container-list on child fails with illegal state exception in 630085 build
<a href="#">ENTESB-5647</a>	Need to add MRRC earlyaccess repo
<a href="#">ENTESB-5669</a>	Quickstarts pom has duplicates in pluginRepositories in 6.3.0.redhat-095 build
<a href="#">ENTESB-5687</a>	camel-sap quickstart can't be build
<a href="#">ENTESB-5751</a>	Fuse 6.3 Jenkins build has 6 test failures
<a href="#">ENTESB-5774</a>	Fabric8 profiles for Camel quickstarts
<a href="#">ENTESB-5781</a>	Can't install camel-amq quickstart on build jboss-fuse-6.3.0.redhat-131
<a href="#">ENTESB-5786</a>	rest and secure-rest quickstarts are missing changes from fabric8
<a href="#">ENTESB-5799</a>	All .jpps in switchyard quickstarts are corrupted
<a href="#">ENTESB-5833</a>	quickstarts/custom assembly cannot be started without modification
<a href="#">ENTESB-5844</a>	Should enable fork option in codegen plug-in for quickstarts/cxf/camel-cxf-contract-first
<a href="#">ENTESB-5893</a>	secure-soap quickstart doesn't work on fabric
<a href="#">ENTESB-5926</a>	rest and secure-rest quickstarts do not work on fabric

Issue Number	Description
<a href="#">ENTESB-5927</a>	jboss-fuse-karaf-6.3.0.redhat-157.zip contains empty quickstart folders
<a href="#">ENTESB-5951</a>	Shell SCR bundle redeploy loop with camel-amq quickstart
<a href="#">ENTMQ-1447</a>	Unable to apply patch to JBoss AM-Q 6.2.0 SSH-containers
<a href="#">ENTMQ-1517</a>	The jboss-a-mq-6.3.0.redhat-012.zip does not startup properly
<a href="#">ENTMQ-1548</a>	Duplicate entries in etc/config.properties shipped with A-MQ 6.2
<a href="#">ENTMQ-1774</a>	A-MQ 6.2.1 R2 errors on startup without Internet access

## 5.2. MESSAGING - 6.3.0

Table 5.2, “[Messaging Issues Resolved in 6.3.0](#)” lists the issues resolved in version 6.3.0.

**Table 5.2. Messaging Issues Resolved in 6.3.0**

Issue Number	Description
<a href="#">AMQ-5854</a>	Duplicate messages when failover is done during prepare phase of two phase commit.
<a href="#">AMQ-5856</a>	allowLinkStealing option is not working when using mqtt over websocket
<a href="#">AMQ-5857</a>	Message content stored twice while sending
<a href="#">AMQ-5865</a>	Enable "getRemoteAddress()" method in WebSocket Requests
<a href="#">AMQ-5870</a>	Lazy create if MQTTProtocolConverter in the WebSocket transport needs to be thread safe
<a href="#">AMQ-5875</a>	Removing a destination when using mKahaDB can cause an IllegalStateException
<a href="#">AMQ-5890</a>	AMQP: possible NPE when handling disposition with Modified state
<a href="#">AMQ-5891</a>	AMQP: update to proton-j 0.10
<a href="#">AMQ-5895</a>	FilteredDestinations do not work when loaded by runtimeConfigurationPlugin
<a href="#">AMQ-5903</a>	Message headers are lost when using the Broker Component for Camel
<a href="#">AMQ-5914</a>	Pull consumer hang when message expires in flight.
<a href="#">AMQ-5933</a>	NullPointerException in SelectorAwareVirtualTopicInterceptor



Issue Number	Description
<a href="#">AMQ-5972</a>	Policy entries not applied in correct order
<a href="#">AMQ-6000</a>	Pause/resume feature of ActiveMQ not resuming properly
<a href="#">AMQ-6005</a>	Slave broker startup corrupts shared PList storage
<a href="#">AMQ-6013</a>	Restrict classes that can be serialized in ObjectMessages
<a href="#">AMQ-6014</a>	Offline Durable Topic Subscription exceeds memory limits
<a href="#">AMQ-6029</a>	wss transport don't work with certificate authentication properly
<a href="#">AMQ-6031</a>	AMQP: use System.nanoTime() when deriving time to tick the transport with for idle-timeout handling
<a href="#">AMQ-6046</a>	Concurrent access to a Transport from WebSocket client can deadlock
<a href="#">AMQ-6055</a>	SASL PLAIN auth with AMQP doesn't take authzid into account
<a href="#">AMQ-6059</a>	DLQ message lost after broker restarts
<a href="#">AMQ-6060</a>	"Will message" retain property is not respected
<a href="#">AMQ-6065</a>	Allow selective use of broker systemExitOnShutdown from DefaultIOExceptionHandler
<a href="#">AMQ-6066</a>	Performance issue in OrderedPendingList
<a href="#">AMQ-6068</a>	RAR - cannot reset clientId on pooled managed connection
<a href="#">AMQ-6069</a>	Purging a Queue can lead to OOM error with prioritized messages
<a href="#">AMQ-6070</a>	originalDestination property of advisory messages set to message id in error
<a href="#">AMQ-6071</a>	Log info about corrupted journal records at WARN level
<a href="#">AMQ-6073</a>	WebSockets no longer working on most browsers
<a href="#">AMQ-6074</a>	AMQ4126Test#testOpenwireNIOSSLWithCertificate fails with JDK8
<a href="#">AMQ-6083</a>	Broker starts on corrupted kahadb despite checkForCorruptJournalFiles="true" and ignoreMissingJournalfiles="false"
<a href="#">AMQ-6086</a>	Broker stop and start are not at all thread safe - we can do better
<a href="#">AMQ-6088</a>	Runtime configuration does not properly apply policy updates

Issue Number	Description
<a href="#">AMQ-6094</a>	Memory Leak with abnormal disconnecting consumers
<a href="#">AMQ-6102</a>	JMX SubscriptionViewMBean reset statistics method doesn't reset
<a href="#">AMQ-6113</a>	Add the X-Frame-Options" header for the WebConsole
<a href="#">AMQ-6121</a>	Messages can continually expire from DLQ and back
<a href="#">AMQ-6122</a>	Potential Deadlock when a duplicate message is read from the store for the DLQ destination
<a href="#">AMQ-6124</a>	failover backup transports do not update the brokerInfo leaving stale org.apache.activemq.ActiveMQConnection#getBrokerName
<a href="#">AMQ-6125</a>	Potential NPE in session rollback if no default redelivery policy configured
<a href="#">AMQ-6128</a>	browsing priority queue can return messages in different order than they will be consumed
<a href="#">AMQ-6131</a>	Durable subscription rewrote in journal can be to aggressive and cause message loss on recovery
<a href="#">AMQ-6133</a>	Message updates can cause message loss on recovery
<a href="#">AMQ-6137</a>	Special escape characters in LIKE selectors do not work as expected
<a href="#">AMQ-6142</a>	ActiveMQBytesMessage decompress throws DataFormatException incorrect header check
<a href="#">AMQ-6146</a>	Use proper JSTL tags in the WebConsole
<a href="#">AMQ-6151</a>	Redelivered messages bypass priority ordering
<a href="#">AMQ-6152</a>	KahaDB scheduler log files not being deleted
<a href="#">AMQ-6168</a>	STOMP: Connection should be closed on receiving an invalid STOMP Frame with unknown action value.
<a href="#">AMQ-6169</a>	STOMP: Invalid frames are logged in warn messages
<a href="#">AMQ-6170</a>	X-Frame-Options are not set for static content
<a href="#">AMQ-6171</a>	legal colon in broker name breaks vm transport
<a href="#">AMQ-6183</a>	Provide the DispatchAsync value on Subscriptions to the SubscriptionViewMBean

Issue Number	Description
<a href="#">AMQ-6194</a>	Deleting a temporary queue creates a warning message in the broker
<a href="#">AMQ-6199</a>	cursorMemoryHighWaterMark configuration not applied to topic subscription
<a href="#">AMQ-6206</a>	properties in stomp non persistent messages are not reflected in the message size used for usage tracking
<a href="#">AMQ-6207</a>	KahaDB: corruption of the index possible on sudden stop of the broker
<a href="#">AMQ-6208</a>	The connector's jmx attribute UpdateClusterClients is not correct
<a href="#">AMQ-6211</a>	Synchronize creating of JMX OpenType objects
<a href="#">AMQ-6214</a>	JAAS bug that causes user group membership not reloaded dynamically when reload is true
<a href="#">AMQ-6215</a>	priority message dispatch can be affected by jms browser or expiry processing paging messages in error
<a href="#">AMQ-6218</a>	Message content returns null occasionally from Virtual Topic to the consumer
<a href="#">AMQ-6221</a>	ActiveMQTextMessage should synchronize on state changes
<a href="#">AMQ-6222</a>	Message content can be cleared by mistake when isReduceMemoryFootprint is enabled
<a href="#">AMQ-6235</a>	SimpleDiscoveryAgent doesn't honor it's configured initialReconnectDelay
<a href="#">AMQ-6240</a>	Producer cannot be terminated when slow consumer is detected
<a href="#">AMQ-6246</a>	STOMP: Unprefixed composite destination values not properly parsed
<a href="#">AMQ-6248</a>	Failover - transport connected to one broker fails due to error in connection to another broker
<a href="#">AMQ-6250</a>	MultiKahaDBTransactionStore should have null protection in close
<a href="#">AMQ-6254</a>	Durable wildcard subscription causes memory leak after broker restart
<a href="#">AMQ-6256</a>	ConcurrentStoreAndDispatch can lead to inconsistent message states using VM Transport
<a href="#">AMQ-6263</a>	AMQP: Using JMS Transformer, preserve the type of the original MessageID
<a href="#">AMQ-6264</a>	Deadlock on destination map - slow topic sub with slowConsumerAdvisory
<a href="#">AMQ-6275</a>	Error when using ws transport connector

Issue Number	Description
<a href="#">AMQ-6285</a>	MessageDatabase doesn't properly cleanup the checkpoint scheduler on shutdown
<a href="#">AMQ-6286</a>	Queue order lost on repeated redelivery
<a href="#">AMQ-6288</a>	Message ack compaction needs to acquire the checkpoint lock
<a href="#">AMQ-6290</a>	JMS Pool reconnection logic not always reliable
<a href="#">AMQ-6303</a>	Message ack rewrite does not always set the right journal file type code
<a href="#">AMQ-6305</a>	AMQP: Drain requests can go unanswered in certain cases.
<a href="#">AMQ-6317</a>	ActiveMQ createSchemaStatements are not executed on init if a previous createSchemaStatement failed on execution
<a href="#">AMQ-6340</a>	Queue order lost on consumer close in some cases
<a href="#">AMQ-6350</a>	PooledConnectionFactory throws 'IllegalStateException: Pool not open' after re-init
<a href="#">AMQ-6361</a>	Message can remain in flight after consumer side expiration acknowledgements
<a href="#">AMQ-6370</a>	JDBC message store - jdbc connection pool - potential deadlock with cleanup task when pool exhausted
<a href="#">AMQ-6372</a>	KahaDB reader pool not releasing unused open files till deletion - too many open files
<a href="#">AMQ-6376</a>	IOException on pageln should involve IOExceptionHandler
<a href="#">AMQ-6378</a>	KahaDb recover from corrupt metadata state locations that can be rebuilt
<a href="#">AMQ-6389</a>	LoggingBrokerPlugin logs a message size equal to 0
<a href="#">AMQ-6392</a>	Allow host name mapping with publishedAddressPolicy on a transportConnector
<a href="#">AMQ-6406</a>	kahadb concurrentStoreAndDispatch - duplicate suppression in cursor needs to wait for possible store add
<a href="#">AMQ-6413</a>	kahadb concurrentStoreAndDispatch - producer audit managed by store is skipped
<a href="#">CAMEL-1022</a>	DOT generator (Visualizer) - Doen't handle that pipeline is default
<a href="#">COLLECTIONS-580</a>	[COLLECTIONS-580] Arbitrary remote code execution with InvokerTransformer

Issue Number	Description
<a href="#">ENTESB-4902</a>	Fuse 6.2.1 failed to handle maven repository url with special characters like "@" for authentication parameters.
<a href="#">ENTESB-4957</a>	missing package org.apache.geronimo.osgi.locator for features:install pax-*-tomcat
<a href="#">ENTESB-5647</a>	Need to add MRRC earlyaccess repo
<a href="#">ENTESB-5818</a>	Upgrade httpclient version to latest, at a minimum > 4.3.4
<a href="#">ENTESB-5872</a>	Unable to send JSON/Object to activemq in Camel
<a href="#">ENTESB-5935</a>	intermittent ServerModel LinkageError when connecting to ssh container
<a href="#">ENTMQ-1160</a>	When ActiveMQ encountered exception during rollback, the message is stuck instead of retry the rollback.
<a href="#">ENTMQ-1180</a>	Offline Durable Topic Subscription exceeds memory limits
<a href="#">ENTMQ-1419</a>	Second connection request with Durable subscriber throws "Setting clientID on a used Connection is not allowed"
<a href="#">ENTMQ-1421</a>	Broker starts on corrupted kahadb despite checkForCorruptJournalFiles="true" and ignoreMissingJournalfiles="false"
<a href="#">ENTMQ-1426</a>	originalDestination property of advisory messages set to message id in error
<a href="#">ENTMQ-1428</a>	AMQ4126Test#testOpenwireNIOSSLWithCertificate fails with JDK8
<a href="#">ENTMQ-1434</a>	StompSubscriptionRemoveTest hangs on Solaris with JDK8
<a href="#">ENTMQ-1484</a>	Implementation of AMQ-6077 in Fuse 6.2.1 is incomplete
<a href="#">ENTMQ-1517</a>	The jboss-a-mq-6.3.0.redhat-012.zip does not startup properly
<a href="#">ENTMQ-1584</a>	Threads Blocked On ActiveMQConnection.ensureConnectionInfoSent
<a href="#">ENTMQ-1656</a>	Enable configuration for mqtt-over-ws transport
<a href="#">ENTMQ-1681</a>	Issue with message ordering after transaction rollback
<a href="#">ENTMQ-1683</a>	*:help missing descriptions for activemq commands
<a href="#">ENTMQ-1708</a>	The connection to 'tcp://...' is taking a long time to shutdown
<a href="#">ENTMQ-1791</a>	Regression in from ENTMQ-703 leads to metrics issue for temp transactional queues

Issue Number	Description
<a href="#">ENTMQ-1822</a>	Broker Unable To Recover After Exceeding File Descriptor Limit
<a href="#">ENTMQ-1823</a>	Two clustered A-MQ nodes using JDBCPersistentAdaptor and lease database locker were active the same time
<a href="#">ZOOKEEPER-2380</a>	[ZOOKEEPER-2380] Deadlock between leader shutdown and forwarding ACK to the leader
<a href="#">ZOOKEEPER-2383</a>	[ZOOKEEPER-2383] Startup race in ZooKeeperServer

### 5.3. SWITCHYARD

Table 5.3, “SwitchYard Issues Resolved in 6.3.0” lists the issues resolved in version 6.3.0.

**Table 5.3. SwitchYard Issues Resolved in 6.3.0**

Issue	Description
<a href="#">CXF-6431</a>	Attachment serialization does not conform to the relevant specs
<a href="#">CXF-6665</a>	ClassCastException in SoapActionInInterceptor
<a href="#">ENTESB-3814</a>	Add missing camel-sap converters to TypeConverter file
<a href="#">ENTESB-3822</a>	Smooks transformer needs "org.milyn" OSGi package
<a href="#">ENTESB-4070</a>	policy-security-basic throws error when executing test
<a href="#">ENTESB-4137</a>	Unable to create SAP destination endpoints if there is no SAP server endpoint.
<a href="#">ENTESB-4320</a>	jca-inflow-activemq quickstart not working
<a href="#">ENTESB-4356</a>	Switchyard JPA does not work on IBM JDK
<a href="#">ENTESB-4398</a>	Arbitrary remote code execution with InvokerTransformer
<a href="#">ENTESB-4433</a>	camel-mqtt-binding not working on Fuse
<a href="#">ENTESB-4436</a>	policy-security-saml quickstart throws error when undeploying
<a href="#">ENTESB-4445</a>	Add all missing switchyard-* artifacts to switchyard bom
<a href="#">ENTESB-4739</a>	HTTPS endpoint address doesn't work with HTTP proxy for RESTEasy reference binding

Issue	Description
<a href="#">ENTESB-4747</a>	No SwitchYard schema is included in Fuse 6.2.1
<a href="#">ENTESB-4777</a>	Unable to install switchyard-http feature
<a href="#">ENTESB-4815</a>	Camel Enrich route not marshalled properly after 2.15.2->2.16.1 update
<a href="#">ENTESB-4850</a>	No bean could be found in the registry for: ConnectionFactory of type: javax.jms.ConnectionFactory
<a href="#">ENTESB-4895</a>	Switchyard application with two services based on a WSDL fails to deploy using Java 8
<a href="#">ENTESB-5016</a>	bpel-jms-binding QS on Fuse/Karaf : Username [karaf] or password is invalid
<a href="#">ENTESB-5018</a>	camel-amqp-binding quickstart : unsatisfied requirement
<a href="#">ENTESB-5025</a>	rest-binding error : dual dependency chains
<a href="#">ENTESB-5027</a>	ftp-binding quickstart ReadMe Fuse section needs changes
<a href="#">ENTESB-5055</a>	Add deltapike module to switchyard
<a href="#">ENTESB-5084</a>	SwitchYard: Karaf build test failure
<a href="#">ENTESB-5113</a>	Message trace modifies character encoding
<a href="#">ENTESB-5140</a>	Verify that quickstarts do not refer to SNAPSHOT versions
<a href="#">ENTESB-5146</a>	Enable smooks bundle in features.xml
<a href="#">ENTESB-5164</a>	Change geronimo servlets 3.0 spec use to javax.servlets
<a href="#">ENTESB-5194</a>	can't install feature switchyard-demo-security-propagation-jms
<a href="#">ENTESB-5195</a>	can't install switchyard-demo-policy-security-basic
<a href="#">ENTESB-5208</a>	bpel: wait timer longer than 30 seconds causes process to wait indefinitely
<a href="#">ENTESB-5221</a>	bpel-xts-subordinate-wsba quickstart deployment fails
<a href="#">ENTESB-5258</a>	Re-enable org.switchyard.karaf.test.quickstarts.CamelMQTTBindingQuickstartTest
<a href="#">ENTESB-5264</a>	camel Mail changes to only accept lower-cased "cc/bcc" in 2.17
<a href="#">ENTESB-5283</a>	SecurityServices info should be cached for performance

Issue	Description
<a href="#">ENTESB-5360</a>	ClassNotFoundException: javax.jws.WebService from Module org.apache.camel.cxf:main
<a href="#">ENTESB-5385</a>	Fix Readme.md in "security-propagation-jms" quickstart
<a href="#">ENTESB-5416</a>	Switchyard features url adds old version of activemq features url (5.9.0)
<a href="#">ENTESB-5418</a>	hawtio camel inconsistent with karaf camel:context-list
<a href="#">ENTESB-5447</a>	bundle geronimo-servlet_2.5_spec/1.2 may cause various wiring chain issues
<a href="#">ENTESB-5491</a>	SY camel-jms-binding Fuse instructions need to add karaf user to etc/users.properties
<a href="#">ENTESB-5564</a>	transform-datamapper quickstart is missing instructions for Fuse
<a href="#">ENTESB-5602</a>	camel-mqtt-binding - no message received with IBM java
<a href="#">ENTESB-5610</a>	CNFE: org.apache.el.ExpressionFactoryImpl not found via camel-dozer
<a href="#">ENTESB-5647</a>	Need to add MRRC earlyaccess repo
<a href="#">ENTESB-5664</a>	Transform-datamapper quickstart has problems with target folder
<a href="#">ENTESB-5689</a>	Align SwitchYard
<a href="#">ENTESB-5700</a>	[fabric:create] Error executing command: Unable to create zookeeper server configuration
<a href="#">ENTESB-5711</a>	Threading issue with Weld Switchyard and cxf-ws-policy
<a href="#">ENTESB-5881</a>	Cannot install rest-binding quickstart with Java 7
<a href="#">ENTESB-5935</a>	intermittent ServerModel LinkageError when connecting to ssh container

## 5.4. ROUTING

Table 5.4, "Routing Issues Resolved in 6.3.0" lists the issues resolved in version 6.3.0.

**Table 5.4. Routing Issues Resolved in 6.3.0**

Issue	Description
<a href="#">AMQ-5652</a>	IdGenerator not optimal in port restricted enviroments.
<a href="#">ARIES-1544</a>	Blueprint property resolution fails for setters with derived type
<a href="#">CAMEL-1000</a>	Trace interceptor does not work with Spring-event component



Issue	Description
<a href="#">CAMEL-1001</a>	ExceptionType handledPolicy is not exposed in the XSD
<a href="#">CAMEL-1003</a>	seda component - will lose message if its stopped while it polls
<a href="#">CAMEL-1019</a>	unexpected result in pressure testing
<a href="#">CAMEL-1023</a>	camel:dot - pipeline is drawn as a multicast
<a href="#">CAMEL-6069</a>	java.io.IOException: Permission denied from MarkerFileExclusiveReadLockStrategy.acquireExclusiveReadLock on NAS
<a href="#">CAMEL-6256</a>	Camel xmpp dynamic router is not sending incoming messages to openfire upon first failed groupchatroom join
<a href="#">CAMEL-6336</a>	camel cdi uses postconstruct to inject in cdi beans
<a href="#">CAMEL-6720</a>	SoapJaxbDataFormat not handling correctly SOAP action with request wrapper element
<a href="#">CAMEL-7443</a>	Remote Print URI changed to UNC Name
<a href="#">CAMEL-7500</a>	Concurrent modification of exchange during retry after netty TCP failure leads to further processing of failed messages
<a href="#">CAMEL-7565</a>	SFTP using PollEnrich with "disconnect=true" and "delete=true" does NOT delete the file
<a href="#">CAMEL-7822</a>	Feature camel-google-drive is failing
<a href="#">CAMEL-7849</a>	Decrypting properties via Jasypt outside of <camelContext>
<a href="#">CAMEL-7884</a>	camel-netty4-http does not work for HTTP POST requests on routingSlip
<a href="#">CAMEL-7897</a>	Camel consumes & discards activemq messages after suspension
<a href="#">CAMEL-7921</a>	The soapAction HTTP header is not correctly set when running the CXF client in POJO mode using Camel
<a href="#">CAMEL-8163</a>	socketFactory must also be set in MailConfiguration when STARTTLS is used
<a href="#">CAMEL-8193</a>	Frequent BlockingOperationExceptions under load
<a href="#">CAMEL-8241</a>	Exec command failures using Java 8 on Unix
<a href="#">CAMEL-8270</a>	camel-rabbitmq: exchangeName in URI must be optional, i.e. default "" exchange
<a href="#">CAMEL-8302</a>	Rabbitmq shouldn't require/bind queue if not specified

Issue	Description
<a href="#">CAMEL-8393</a>	Redelivery doesn't work correctly on Dynamic Routers
<a href="#">CAMEL-8431</a>	Consume all files in aws S3 bucket where deleteAfterRead = false
<a href="#">CAMEL-8437</a>	Simple bean call doesn't like parenthesis in parameter values
<a href="#">CAMEL-8455</a>	camel-linkedin - update_key option should be optional in getHistoricalStatusUpdateStatistics
<a href="#">CAMEL-8456</a>	Remove addCompanyUpdateComment endpoint from camel-linkedin
<a href="#">CAMEL-8457</a>	Correct return types of some endpoints in camel-linkedin
<a href="#">CAMEL-8458</a>	camel-linkedin - public_profile_url option should be String
<a href="#">CAMEL-8460</a>	camel-spring-boot - Routes restart during startup
<a href="#">CAMEL-8461</a>	camel-netty-http does not respect client's keep-alive setting
<a href="#">CAMEL-8462</a>	HttpServerChannelHandler should not store the instance of HttpRequest
<a href="#">CAMEL-8464</a>	Remove likeCompanyUpdate endpoint from camel-linkedin
<a href="#">CAMEL-8466</a>	Feature camel-linkedin is missing dependencies for xalan, xerces and xmlresolver
<a href="#">CAMEL-8467</a>	Update camel-linkedin and camel-box components to use servicemix bundle for htmlunit
<a href="#">CAMEL-8469</a>	Several enum types should generate lower case values in camel-linkedin
<a href="#">CAMEL-8470</a>	Several small fixes for camel-linkedin
<a href="#">CAMEL-8471</a>	Port IdGenerator not optimal in port restricted environments.
<a href="#">CAMEL-8475</a>	CamelSpringDelegatingTestContextLoader and TestNG
<a href="#">CAMEL-8476</a>	Unexpected behavior in fault handling with doTry/doCatch
<a href="#">CAMEL-8479</a>	TrapReceiveTest is failed within Camel 2.15.0
<a href="#">CAMEL-8480</a>	camel-catalog has unnecessary imports if it cannot access some other artifacts
<a href="#">CAMEL-8484</a>	File language - Should support file extensions with multiple dots such as tar.gz
<a href="#">CAMEL-8492</a>	BeanInfo introspection ignores overridden methods

Issue	Description
<a href="#">CAMEL-8498</a>	CamelContextFactoryBean missing setEndpoints method
<a href="#">CAMEL-8500</a>	ClassCastException when something other than PropertiesComponent is bound to "properties" JNDI name
<a href="#">CAMEL-8504</a>	Failed to process Schematron XSLT templates and/or rules on windows
<a href="#">CAMEL-8505</a>	Missed CamelSchematronValidationStatus header
<a href="#">CAMEL-8510</a>	NPE will be thrown from doAppend() of PaxLoggingConsumer during load testing
<a href="#">CAMEL-8515</a>	Camel marshal/unmarshal - Should catch throwable in case dataformat causes an java.lang.Error
<a href="#">CAMEL-8519</a>	Salesforce component security listener does not replace old auth header
<a href="#">CAMEL-8520</a>	Camel XMPP doesn't use a DNS resolver to look at SRV records
<a href="#">CAMEL-8521</a>	camel-script - Should try all classloaders before throwing IAE
<a href="#">CAMEL-8530</a>	can't install camel-github feature in karaf
<a href="#">CAMEL-8540</a>	S3Consumer uses maxMessagesPerPoll incorrectly
<a href="#">CAMEL-8546</a>	No LanguageResolver found for language=js
<a href="#">CAMEL-8547</a>	Usage of camel-xmlbeans depends on TCCL
<a href="#">CAMEL-8556</a>	AnnotationTypeConverterLoader treats package as class
<a href="#">CAMEL-8566</a>	Feature camel-cxf doesn't install all required dependencies
<a href="#">CAMEL-8568</a>	Feature camel-swagger doesn't install all required dependencies
<a href="#">CAMEL-8573</a>	Feature camel-hbase doesn't install all required dependencies
<a href="#">CAMEL-8574</a>	Feature camel-hdfs doesn't install all required dependencies
<a href="#">CAMEL-8575</a>	Salesforce component doesn't properly retries the request when doing re-login
<a href="#">CAMEL-8578</a>	camel-http - May double encode uri when using HTTP_URI or HTTP_QUERY headers
<a href="#">CAMEL-8584</a>	Circuit breaker does not honour halfOpenAfter period
<a href="#">CAMEL-8585</a>	The lazy load option doesn't unlock the file

Issue	Description
<a href="#">CAMEL-8587</a>	Exceptions from multicast aggregators are not propagated to the global exception handler
<a href="#">CAMEL-8589</a>	url.getPort returning -1, needs additional check
<a href="#">CAMEL-8592</a>	NPE in AbstractListAggregationStrategy if empty list
<a href="#">CAMEL-8597</a>	Elasticsearch component ignores indexType header set from endpoint URL
<a href="#">CAMEL-8607</a>	Camel endpoint RAW password unsafe characters
<a href="#">CAMEL-8609</a>	Remove open-jpa bundle from camel-jpa feature
<a href="#">CAMEL-8624</a>	Bean component - Potential NPE in BeanInfo
<a href="#">CAMEL-8626</a>	Leaking exchangesInFlightKeys in ManagedRoute
<a href="#">CAMEL-8628</a>	camel-dozer component fails when multiple expressions are used in a mapping
<a href="#">CAMEL-8636</a>	camel-kafka need to commit the last batch of messages when the auto commit is false
<a href="#">CAMEL-8639</a>	Camel FTP component cannot recover after network failure
<a href="#">CAMEL-8643</a>	Http Post from a streaming client sometimes fails to parse
<a href="#">CAMEL-8646</a>	Camel doesn't allow intercept and advice on the same route
<a href="#">CAMEL-8649</a>	Camel RAW() cannot handle String of %2050
<a href="#">CAMEL-8660</a>	camel-ftp - Disconnect when no messages dont call disconnect
<a href="#">CAMEL-8663</a>	Namespaces defined on the SOAP envelope get lost in PAYLOAD mode
<a href="#">CAMEL-8665</a>	Throttler EIP - Using method call for message per sec exp fails in spring
<a href="#">CAMEL-8672</a>	Restlet Rest Component properties are ignored
<a href="#">CAMEL-8673</a>	ConcurrentModificationException when creating dynamic routes
<a href="#">CAMEL-8674</a>	Camel-Netty4 does not set remote UDP address in headers
<a href="#">CAMEL-8678</a>	Infinite recursion in TransactionErrorHandler toString method
<a href="#">CAMEL-8682</a>	Context scoped OnException should not be stopped if a route is stopped
<a href="#">CAMEL-8683</a>	Using load balancer in onException adds duplicate outputs for each route defined

Issue	Description
<a href="#">CAMEL-8687</a>	SyslogConverter doesn't handle the structured data rightly
<a href="#">CAMEL-8688</a>	Removed StreamCache when doing a Wiretap
<a href="#">CAMEL-8689</a>	camel-dozer: Multiple contexts / bundles - Does not use the correct classloader
<a href="#">CAMEL-8690</a>	Camel HDFS2 - ShutdownHookManager class not found when shutting down OSGi framework
<a href="#">CAMEL-8694</a>	java.lang.NullPointerException in at org.apache.camel.component.netty4.http.NettyHttpProducer\$NettyHttpProducerCallback.done
<a href="#">CAMEL-8702</a>	when occurs "Connection reset by peer", netty4 client's EventLoopGroup select thread won't shut down
<a href="#">CAMEL-8707</a>	camel-smpp: smpps doesn't work over proxy
<a href="#">CAMEL-8708</a>	SOAP unmarshalling shouldn't fail for Faults that lack an optional Detail element
<a href="#">CAMEL-8713</a>	ParallelAggregate option when using parallel mode does not run in parallel
<a href="#">CAMEL-8715</a>	camel-sql - Should close ResultSet
<a href="#">CAMEL-8717</a>	camel-kafka feature miss kafka-clients bundle
<a href="#">CAMEL-8718</a>	Connection leak with ftp consumer and invalid credentials
<a href="#">CAMEL-8737</a>	camel-salesforce - Unable to generate DTOs for Filtered Lookup fields
<a href="#">CAMEL-8738</a>	Referring to constants using type
<a href="#">CAMEL-8742</a>	RabbitMqConsumer did not retry if connection failed
<a href="#">CAMEL-8745</a>	Swagger requires context name with quotes
<a href="#">CAMEL-8746</a>	Jasypt with BridgePropertyPlaceholderConfigurer is not handling spring property injection with defaults anymore
<a href="#">CAMEL-8747</a>	camel-rx - Should leverage UoW when subscribe or observe
<a href="#">CAMEL-8748</a>	DozerBeanMapper cannot instantiate DozerThreadContextClassLoader
<a href="#">CAMEL-8756</a>	KafkaConsumer doesn't stop consuming when suspended, preventing graceful route shutdown

Issue	Description
<a href="#">CAMEL-8757</a>	SO_TIMEOUT not really set on SFTP connections
<a href="#">CAMEL-8758</a>	NPE for CacheComponent
<a href="#">CAMEL-8764</a>	Camel-Spring-Redis: Jedis bundle require commons-pool2
<a href="#">CAMEL-8765</a>	JpaConsumer - May poll too soon before JPA stuff is initialized
<a href="#">CAMEL-8768</a>	hdfs2 component overwrite option is also being applied to directory filesystem path
<a href="#">CAMEL-8770</a>	Camel Blueprint - depends-on does not work
<a href="#">CAMEL-8771</a>	Add MaxChannelMemorySize and MaxTotalMemorySize for OrderedMemoryAwareThreadPoolExecutor
<a href="#">CAMEL-8774</a>	DefaultJettyHttpBinding preserves CONTEXT_ENCODING from the request even HTTP response doesn't contain the header
<a href="#">CAMEL-8780</a>	Camel exec component have trouble to load arguments list from message header
<a href="#">CAMEL-8782</a>	Configuring endpoints using reference lookup may fail with matching primitive types with their Object counterpart types
<a href="#">CAMEL-8783</a>	Transacted not working correctly in scala
<a href="#">CAMEL-8784</a>	Policy, Validate, Wiretap Scala DSL don't work out of box
<a href="#">CAMEL-8785</a>	StackOverFlowError using Custom InterceptStrategy
<a href="#">CAMEL-8786</a>	The ServletContext init parameters check is not right in CamelServletContextListener
<a href="#">CAMEL-8798</a>	weaveAddLast throwing UnsupportedOperationException when route have a ChoiceDefinition
<a href="#">CAMEL-8803</a>	Conflicting classes in camel-jetty9 Maven artifact dependencies
<a href="#">CAMEL-8804</a>	NullPointerException in RestSwaggerReader
<a href="#">CAMEL-8805</a>	NullPointerException on RestletComponent.disconnect
<a href="#">CAMEL-8810</a>	Camel CXF may propagate wrong Content-Length headers
<a href="#">CAMEL-8812</a>	Memory leak in HL7MLLPNettyDecoder
<a href="#">CAMEL-8816</a>	Elasticsearch component fails in an OSGi environment due to missing names.txt

Issue	Description
<a href="#">CAMEL-8829</a>	ConcurrentModificationException while logging
<a href="#">CAMEL-8841</a>	camel:context-inflight returns 'Object name cannot be null'
<a href="#">CAMEL-8858</a>	Camel-Hazelcast: HazelcastComponentHelper miss some operations in mapping
<a href="#">CAMEL-8864</a>	Camel-Aggregator JDBC repository always overwrites old exchange
<a href="#">CAMEL-8871</a>	null body after exception from transform method
<a href="#">CAMEL-8874</a>	camel-blueprint-archetypes should have test dependency of camel-test-blueprint
<a href="#">CAMEL-8884</a>	camel:run with CDI has been reported to not work
<a href="#">CAMEL-8885</a>	ConsumeLockEntity without ConsumeDelete
<a href="#">CAMEL-8887</a>	Exceptions on routes SFTP and SEDA or DISRUPTOR (probably others)
<a href="#">CAMEL-8888</a>	Camel-Aws EC2: Add getMessageForResponse to the producer as the other components already do
<a href="#">CAMEL-8895</a>	camel-swagger component throws exception, when multiple different camel-contexts in jmx
<a href="#">CAMEL-8898</a>	ElementNotFoundException on LinkedIn authentication
<a href="#">CAMEL-8900</a>	Javadoc parser in API Component Framework misses first method with void return type in JDK7
<a href="#">CAMEL-8901</a>	NBSP characters in camel-kafka:KafkaConfiguration parameter
<a href="#">CAMEL-8902</a>	Camel Facebook - Endpoint URI must contain a parameter
<a href="#">CAMEL-8904</a>	Breadcrumb ID changes when using netty4-http as a producer
<a href="#">CAMEL-8905</a>	encoding problems in jsonpath
<a href="#">CAMEL-8909</a>	Jasypt CLI outputs help twice
<a href="#">CAMEL-8914</a>	Unable to shutdown endpoint when intercepted with interceptSendToEndpoint
<a href="#">CAMEL-8916</a>	Support autoCreate=true in ftp/ftps/sftp consumers
<a href="#">CAMEL-8923</a>	Kafka: Topic name lookup from message headers in the producer causes infinite loop

Issue	Description
<a href="#">CAMEL-8927</a>	camel-ahc-ws - Do not swallow exception when connecting
<a href="#">CAMEL-8933</a>	mail consumer (imap) polls continuously (not using the default polling interval)
<a href="#">CAMEL-8945</a>	Loop - Should break out looping if exception happened during routing
<a href="#">CAMEL-8949</a>	Netty 3 component spins on receiving TCP RST
<a href="#">CAMEL-8950</a>	Injected Quartz2 scheduler doesn't have access to CamelContext in jobs
<a href="#">CAMEL-8951</a>	RecipientList with RAW parameter do not work
<a href="#">CAMEL-8954</a>	Lock information is not handovered together with Exchange on-completion synchronizations
<a href="#">CAMEL-8955</a>	Processor for .pollEnrich incorrectly handles provided AggregationStrategy
<a href="#">CAMEL-8957</a>	adviceWith() doesn't work with loadBalance().failover()
<a href="#">CAMEL-8963</a>	camel:route-suspend karaf command doesn't work as expected
<a href="#">CAMEL-8964</a>	CamelContext - API for control routes may cause Route not to update it state
<a href="#">CAMEL-8967</a>	Karaf Camel command for route profile has karaf rbac problem
<a href="#">CAMEL-8978</a>	Setting of SOAP headers via the Camel Header "org.apache.cxf.headers.Header.list" not working for CXF data format "PAYLOAD"
<a href="#">CAMEL-8984</a>	BlueprintCamelContext OSGi service is not unregistered when context is stopped
<a href="#">CAMEL-8988</a>	Can't manually trigger quartz2 jobs
<a href="#">CAMEL-8989</a>	SJMS drops messages with null body even if allowNullBody is true
<a href="#">CAMEL-9005</a>	Yammer - Endpoint "received" does not work
<a href="#">CAMEL-9012</a>	Olingo2's batch process generates the invalid request
<a href="#">CAMEL-9013</a>	Camel HTTP no longer supporting chunked transfer encoding with Tomcat
<a href="#">CAMEL-9017</a>	Camel-Hazelcast: HazelcastAggregationRepository::confirm should check useRecovery before using persistedCache
<a href="#">CAMEL-9019</a>	ManagedRuntimeEndpointRegistry was not enlisted in JMX



Issue	Description
<a href="#">CAMEL-9022</a>	JacksonTypeConverter breaks CSV marshalling
<a href="#">CAMEL-9026</a>	ClassNotFoundException: kafka.serializer.StringEncoder
<a href="#">CAMEL-9027</a>	camel-sjms - Parse destinationName from endpointUri having colon in the name
<a href="#">CAMEL-9029</a>	JGroups managed routes can be started too early
<a href="#">CAMEL-9030</a>	The instructions for camel-example-box-osgi are incorrect
<a href="#">CAMEL-9031</a>	Dependency missing in camel-kafka feature
<a href="#">CAMEL-9032</a>	Bean component - Should filter out abstract methods
<a href="#">CAMEL-9035</a>	unbind smpp connection bug
<a href="#">CAMEL-9037</a>	DefaultJmsMessageListenerContainer leaks threads
<a href="#">CAMEL-9043</a>	Fix camel-example-cxf-osgi/blueprint examples
<a href="#">CAMEL-9048</a>	camel-core causes restart of karaf console if it is refreshed
<a href="#">CAMEL-9049</a>	Websocket Component not shutting down embedded jetty server on component shutdown
<a href="#">CAMEL-9057</a>	Camel Example Servlet REST generates java.lang.NoClassDefFoundError: scala/xml/PrettyPrinter
<a href="#">CAMEL-9059</a>	Jetty exposes its endpoint without component name
<a href="#">CAMEL-9065</a>	Exchange created needs to be aware of its FROM endpoint.
<a href="#">CAMEL-9079</a>	XPathBuilder - Evaluate without exchange inconsistent response
<a href="#">CAMEL-9087</a>	camel-pgevent payload always null
<a href="#">CAMEL-9089</a>	Ambiguous URI in Rest API
<a href="#">CAMEL-9090</a>	camel-cxf - test dependency not in test scope?
<a href="#">CAMEL-9092</a>	MQTT consumer receives duplicate messages after broker restart
<a href="#">CAMEL-9094</a>	Can't use custom FTPParser on OSGI
<a href="#">CAMEL-9099</a>	[camel-script] wrong detection of script engine factories

Issue	Description
<a href="#">CAMEL-9101</a>	RabbitMQ specific message properties are forwarded as message headers
<a href="#">CAMEL-9104</a>	HttpHelper concats fixed endpoint URI query parameters with CamelHttpPath header in wrong order
<a href="#">CAMEL-9106</a>	URI option mapMailMessage doesn't obey peek=true option
<a href="#">CAMEL-9112</a>	Problem upgrading to Camel 2.14.3 in Karaf 3.0.4
<a href="#">CAMEL-9121</a>	activemq-camel pulls in outdated version of commons-pool2
<a href="#">CAMEL-9122</a>	Ruby script cannot access request object
<a href="#">CAMEL-9124</a>	RedeliveryPattern should support property placeholders
<a href="#">CAMEL-9126</a>	camel-swagger may see unrelated type=context mbeans
<a href="#">CAMEL-9127</a>	SmpcConsumer throws IllegalArgumentException if the delivery receipt contains vendor specific optional parameters
<a href="#">CAMEL-9130</a>	"need to add the dependency of jedis as redis client lib"
<a href="#">CAMEL-9139</a>	Reading parameter not configurable via header in camel-facebook
<a href="#">CAMEL-9140</a>	Missing configuration properties in camel-facebook
<a href="#">CAMEL-9142</a>	dropped support for multiple blueprint descriptors in unit tests
<a href="#">CAMEL-9143</a>	Producers that implement the ServicePoolAware interface cause memory leak due to JMX references
<a href="#">CAMEL-9144</a>	Regression with camel-jackson 2.15.3
<a href="#">CAMEL-9150</a>	Seda suspend/resume should not trigger start/stop logic
<a href="#">CAMEL-9151</a>	Wrong statistics for subroutes
<a href="#">CAMEL-9159</a>	wireTap("log: ...") leads to script engine error
<a href="#">CAMEL-9161</a>	Camel spring-boot not finding routes when using spring-cloud
<a href="#">CAMEL-9164</a>	errorHandlerRef causes NoSuchBeanException on uninstall
<a href="#">CAMEL-9166</a>	Some functionality broken in Camel-8857

Issue	Description
<a href="#">CAMEL-9171</a>	camel-xmpp processes no messages when running in Karaf
<a href="#">CAMEL-9177</a>	combination of JPA-Component, loop and wiretap throws entitymanger closed exception
<a href="#">CAMEL-9183</a>	java.lang.IllegalArgumentException: Unsupported namespaces: [http://camel.apache.org/schema/blueprint]
<a href="#">CAMEL-9191</a>	camel-example-spring-jms ServerRoutes contains invalid URI parameter methodName
<a href="#">CAMEL-9195</a>	Memory leak in UndertowProducer
<a href="#">CAMEL-9196</a>	CLONE - DefaultShutdownStrategy shutdown timeout of 0 will never timeout and go in negative time
<a href="#">CAMEL-9199</a>	RabbitMQ Consumer threads crash when sending partially serializable objects
<a href="#">CAMEL-9200</a>	Context component conflates endpoints with the same local id from different CamelContexts
<a href="#">CAMEL-9202</a>	Flatpack: Body reader never closed
<a href="#">CAMEL-9205</a>	REST endpoint with CORS sends invalid header value for Access-Control-Allow-Origin
<a href="#">CAMEL-9208</a>	camel-netty4-http does not resolve nettyHttpBinding option
<a href="#">CAMEL-9215</a>	Missing .handled(true) in Camel 2.16.0 when using wiretap and newExchangeBody
<a href="#">CAMEL-9217</a>	URI validation verifies usage of & char incorrectly
<a href="#">CAMEL-9220</a>	swagger - Model schema not including nested objects
<a href="#">CAMEL-9223</a>	IllegalArgumentException when reverting fields using property placeholders
<a href="#">CAMEL-9227</a>	No type converter available to convert from Bean to List
<a href="#">CAMEL-9230</a>	CXFRS NPE when response code not in Response.Status
<a href="#">CAMEL-9231</a>	camel-example-spring-ws - Does not work
<a href="#">CAMEL-9233</a>	ZipFileDataFormat doesn't take exchange's charset into account
<a href="#">CAMEL-9235</a>	No type converter available when destination is super type
<a href="#">CAMEL-9238</a>	NPE while GenericFile.changeFileName

Issue	Description
<a href="#">CAMEL-9243</a>	Invocation of Bean fails when Bean extends and abstract which implements the actual method
<a href="#">CAMEL-9245</a>	camel-paho - Endpoint should allow a flexible naming.
<a href="#">CAMEL-9246</a>	camel-cxf proxy with MTOM does not get attachment back when RPC/literal style WSDL used
<a href="#">CAMEL-9247</a>	rest-dsl with api-doc should allow multiple rest's
<a href="#">CAMEL-9248</a>	Exception is thrown when receiving a message where JMSDestination is null
<a href="#">CAMEL-9255</a>	documentType not used for XPath predicates in XML DSL
<a href="#">CAMEL-9257</a>	route stop/start doesn't work for camel-websocket producer
<a href="#">CAMEL-9259</a>	enableTrace of the Main class doesn't work
<a href="#">CAMEL-9269</a>	NotifyBuilder.fromRoute() does not work for some endpoint types
<a href="#">CAMEL-9270</a>	rest-dsl - CORS support doesn't work with Restlet 2.3
<a href="#">CAMEL-9272</a>	openweathermap.org requires an APPID id since 09/10/2015
<a href="#">CAMEL-9276</a>	Netty4 component allows multiple consumers to bind to the same {host}:{port}
<a href="#">CAMEL-9277</a>	FTP shutdown whole context on startup if throwExceptionOnConnectFailed true
<a href="#">CAMEL-9281</a>	Http4 component removes trailing slashes from http requests (producer)
<a href="#">CAMEL-9282</a>	IndexOutOfBoundsException if SoapAction parameter is empty
<a href="#">CAMEL-9290</a>	netty4 consumer in clientMode only reconnects once
<a href="#">CAMEL-9311</a>	Concurrency issue with the dynamic router
<a href="#">CAMEL-9313</a>	CamelBlueprintTestSupport - can't initialize ConfigAdmin configurations
<a href="#">CAMEL-9316</a>	LevelDBAggregationRepository is logging warnings when exchange is already complete on first aggregation
<a href="#">CAMEL-9318</a>	org.apache.camel.component.twitter.TwitterEndpointEvent cannot be cast to org.apache.camel.component.direct.DirectEndpoint
<a href="#">CAMEL-9319</a>	SshClient resource leak when used from ProducerTemplate

Issue	Description
<a href="#">CAMEL-9321</a>	Blueprint example and archetype does not work when executed with camel:run
<a href="#">CAMEL-9331</a>	Thread leak in Http4Endpoint, doStop() does not close() the httpClient
<a href="#">CAMEL-9340</a>	FileIdempotentRepository fails to create fileStore when no path is specified
<a href="#">CAMEL-9347</a>	camel-blueprint - Fix auto lookup of transaction policy
<a href="#">CAMEL-9362</a>	Camel CDI component should not require the PAX CDI Camel capability
<a href="#">CAMEL-9366</a>	CXFRS "skipFaultLogging" attribute doesn't work in Spring
<a href="#">CAMEL-9368</a>	Netty4 producer hangs when connection is prematurely closed
<a href="#">CAMEL-9374</a>	camel-mail - The dummyTrustManager do not work
<a href="#">CAMEL-9375</a>	camel-tarfile - TarSplitter includes one extra empty entry at the end
<a href="#">CAMEL-9381</a>	Upgrade camel-amqp to the latest qpid-jms-client
<a href="#">CAMEL-9384</a>	Host HTTP header should contain a port number if it differs form 80
<a href="#">CAMEL-9386</a>	Camel-git: Support credentials in clone operation
<a href="#">CAMEL-9391</a>	Set parameter enableEventsResending should be before Atmosphere wrap request
<a href="#">CAMEL-9398</a>	NullPointerException when connectionKey is not valid
<a href="#">CAMEL-9405</a>	Amazon SQS message deletion behaviour change on exception
<a href="#">CAMEL-9406</a>	Request Reply via RabbitMQ not handling reply correctly
<a href="#">CAMEL-9411</a>	Remove old stuff
<a href="#">CAMEL-9417</a>	SOAP 1.2 Fault processing should use value of ReasonText to build exception message
<a href="#">CAMEL-9423</a>	dependency on restlet in camel-rx module does have default scope
<a href="#">CAMEL-9424</a>	CronScheduledRoutePolicy regression introduced with 2.16, setting both start and stop route times fails with duplicate trigger
<a href="#">CAMEL-9425</a>	base.path, host, and schemes are all ignored for generating the swagger definitions
<a href="#">CAMEL-9426</a>	spring-boot with rest-dsl with api-doc registers multiple instances with multiple RouteBuilders

Issue	Description
<a href="#">CAMEL-9431</a>	camel-spring-boot - TypeConverter autoconfiguration leads to invalid shutdown sequence
<a href="#">CAMEL-9432</a>	Bindy CSV separator not treated as regex but fixed character in all cases
<a href="#">CAMEL-9438</a>	Unable to use camel-example-cxf
<a href="#">CAMEL-9439</a>	Cannot use camel-geocoder in Karaf
<a href="#">CAMEL-9442</a>	Query string gets decoded when bridging from netty-http to http4
<a href="#">CAMEL-9444</a>	Incorrect exceptions handling from Splitter
<a href="#">CAMEL-9459</a>	Cannot install camel-kubernetes in karaf
<a href="#">CAMEL-9462</a>	HTTP 1.1 Host header be dealt wrongly in proxy & load balancer
<a href="#">CAMEL-9468</a>	Bindy fails to marshal objects in Spring Boot
<a href="#">CAMEL-9480</a>	IdempotentConsumer - If exception from repo it should be able to handle by onException
<a href="#">CAMEL-9483</a>	Deploying bundle with Camel routes packaged in KAR fails randomly
<a href="#">CAMEL-9491</a>	statement.maxRows not working as expected camel jdbc
<a href="#">CAMEL-9503</a>	OnCompletion - restores the rollback only last in the wrong key
<a href="#">CAMEL-9505</a>	RabbitMQConsumer don't use Camel ExceptionHandler BEFORE requeing message
<a href="#">CAMEL-9506</a>	STOMP component does not handle stream objects
<a href="#">CAMEL-9509</a>	camel-cometd is not working with camel 2.15.2
<a href="#">CAMEL-9522</a>	Groovy does not work with spring boot
<a href="#">CAMEL-9526</a>	Blueprint depends-on can no longer contain multiple bean ids
<a href="#">CAMEL-9527</a>	camel-netty4 - Should not log stacktrace when client has received reply
<a href="#">CAMEL-9528</a>	Camel loadbalancing example is broken
<a href="#">CAMEL-9532</a>	Default value given in RestOperationParamDefinition not output in swagger api
<a href="#">CAMEL-9543</a>	Discovering new type converters in OSGi wipes out those manually added
<a href="#">CAMEL-9545</a>	Dozer classloading may fail with spring based context

Issue	Description
<a href="#">CAMEL-9553</a>	Twitter consumer doesn't respect the delay parameter
<a href="#">CAMEL-9555</a>	Setting <code>deadLetterHandleNewException</code> to false breaks <code>DeadLetterChannel</code> default exception handling
<a href="#">CAMEL-9557</a>	Facebook consumer throws <code>IllegalArgumentException</code> with reading parameters
<a href="#">CAMEL-9558</a>	<code>DefaultErrorHandler</code> logs despite "handled true"
<a href="#">CAMEL-9560</a>	RabbitMQ InOut Producer generates a null body response when a <code>correlationId</code> is used
<a href="#">CAMEL-9566</a>	<code>camel-asf-ws</code> component does not reconnect to the web socket
<a href="#">CAMEL-9569</a>	Idempotent Consumer EIP - Memory leak when add/remove routes
<a href="#">CAMEL-9576</a>	<code>ClassLoadingAwareObjectInputStream</code> cannot handle deserializing proxies with mixed JDK & non-JDK interfaces
<a href="#">CAMEL-9582</a>	<code>swagger-api</code> docs not working in only using xml without any java route
<a href="#">CAMEL-9593</a>	<code>camel-example-swagger-cdi</code> is not producing valid swagger definition
<a href="#">CAMEL-9599</a>	<code>camel-cxfrs</code> - When responding then do not use <code>content-length</code> from input
<a href="#">CAMEL-9607</a>	<code>chmod</code> does not work for the File producer without setting a charset
<a href="#">CAMEL-9608</a>	<code>camel-jpa</code> consumer fails to poll after transaction timeout
<a href="#">CAMEL-9611</a>	Restlet GET request should not try to stringify the exchange body
<a href="#">CAMEL-9613</a>	<code>camel-spark-rest</code> - Adds duplicate <code>content-type</code>
<a href="#">CAMEL-9614</a>	xsd <code>schemalocation</code> for osgi blueprint is using http instead of https
<a href="#">CAMEL-9636</a>	<code>CamelBlueprintTestSupport</code> - initialization error in case of empty <code>cm:property-placeholder</code>
<a href="#">CAMEL-9640</a>	Query string gets decoded when bridging from <code>netty*-http</code> to <code>netty*-http</code>
<a href="#">CAMEL-9641</a>	Simple backwards parser bug if using file
<a href="#">CAMEL-9656</a>	Using SpringBoot <code>HealthEndpoint</code> bean throws <code>AmbiguousMethodCallException</code>
<a href="#">CAMEL-9658</a>	Path gets decoded when bridging HTTP endpoints

Issue	Description
<a href="#">CAMEL-9660</a>	HTTP producers crash when Exchange.HTTP_URI header contains unencoded unsafe characters
<a href="#">CAMEL-9664</a>	DefaultRestletBinding.populateRestletRequestFromExchange uses wrong mediaType comparison
<a href="#">CAMEL-9665</a>	camel-ahc-ws Consumer does not connect
<a href="#">CAMEL-9666</a>	Safe copy of DefaultExchange does not propagate 'fault' property
<a href="#">CAMEL-9667</a>	Resequencer does not work with asynchronous producers
<a href="#">CAMEL-9668</a>	Add lzf to DataFormatsDefinition
<a href="#">CAMEL-9670</a>	Camel-ftp: No error message on invalid credentials
<a href="#">CAMEL-9672</a>	ClassCastException with interceptFrom
<a href="#">CAMEL-9673</a>	doTry .. doFinally should run the finally block for fault messages also
<a href="#">CAMEL-9680</a>	Stream caching is broken under Spring Boot
<a href="#">CAMEL-9686</a>	camel-aws - Using cron scheduler on aws-s3 do not work
<a href="#">CAMEL-9687</a>	camel-swagger - Should use resolved placeholders in output
<a href="#">CAMEL-9698</a>	camel-servlet karaf feature misses dependency on camel-core
<a href="#">CAMEL-9700</a>	seda - discardIfNoConsumers=true do not call on completions
<a href="#">CAMEL-9703</a>	Infinispan endpoint requires infinispan-query-dsl
<a href="#">CAMEL-9710</a>	Camel Dozer Component - Fails to load custom function due to NPE
<a href="#">CAMEL-9713</a>	Can not set custom Jetty HttpClient to producer endpoint
<a href="#">CAMEL-9714</a>	camel-boon - Unmarshal to Map does not work
<a href="#">CAMEL-9728</a>	change Reader to InputStream if the camel-cxf endpoint use RAW MESSAGE DataFormat
<a href="#">CAMEL-9730</a>	NPE in camel-jaxb when using in OSGi running from CamelTestBlueprint
<a href="#">CAMEL-9731</a>	Camel-josql: the sql script language does not work
<a href="#">CAMEL-9732</a>	camel-swagger-java - Issue in appendModels in the reader



Issue	Description
<a href="#">CAMEL-9738</a>	Thread leak for camel-mina2 consumers
<a href="#">CAMEL-9739</a>	Mina2Consumer exception handler do close session also for IOException
<a href="#">CAMEL-9767</a>	CDI deployment problem in JBoss EAP 6.3
<a href="#">CAMEL-9774</a>	CXFPayload may lose CDATA sections under stream caching
<a href="#">CAMEL-9777</a>	camel-zipfile - Using zip iterator with dataformat may fail
<a href="#">CAMEL-9779</a>	camel-netty4-http - Using no port number issue
<a href="#">CAMEL-9780</a>	Cannot install camel-hazelcast in Karaf 3.x
<a href="#">CAMEL-9784</a>	Camel polling the files from S3 only once if deleteAfterRead is false
<a href="#">CAMEL-9793</a>	PropertyPlaceholder not loading Property, thinks it is a Parameter
<a href="#">CAMEL-9794</a>	camel-http4 - The producer should check the response header in the reply for content-type
<a href="#">CAMEL-9805</a>	camel-sql - body not copied from in to out when using outputHeader and outputType=SelectOne when sql doesn't return a result
<a href="#">CAMEL-9807</a>	Blocking of CXF consumer endpoint by http GET request
<a href="#">CAMEL-9812</a>	Camel leaves Kafka consumers running after shutdown
<a href="#">CAMEL-9819</a>	camel-jetty8 test missing dependency
<a href="#">CAMEL-9820</a>	SFTP readLock=changed does not work with readLockMinAge option
<a href="#">CAMEL-9821</a>	camel-cxf should be able to handle InOnly MEP for the RAW MESSAGE dataFormat
<a href="#">CAMEL-9834</a>	WatchConsumer does not properly set watchIndex
<a href="#">CAMEL-9841</a>	NPE in MIME-Multipart Data Format if no file name is defined on attachment
<a href="#">CAMEL-9851</a>	Zookeeper RoutePolicy failing to create znode
<a href="#">CAMEL-9852</a>	Camel-weather: freegeoip.net is no longer available. Need switch to something else.
<a href="#">CAMEL-9853</a>	Camel-CXF: Possible NPE in DefaultCXFBinding
<a href="#">CAMEL-9854</a>	CXF Stream Cache contains duplicate namespace definition

Issue	Description
<a href="#">CAMEL-9862</a>	Potential NPE in UndertowComponent.unregisterConsumer
<a href="#">CAMEL-9866</a>	@PropertyInject doesn't work with Spring-Boot
<a href="#">CAMEL-9874</a>	Camel Jetty consumer endpoint incorrectly handles multipart/form-data
<a href="#">CAMEL-9876</a>	Error handling in splitter is broken with version 2.17.0
<a href="#">CAMEL-9881</a>	Aggregator completionPredicate unusable with scala DSL
<a href="#">CAMEL-9887</a>	onCompletion not called on Splitter configured with CompletionAwareAggregationStrategy and shareUnitOfWork=true
<a href="#">CAMEL-9890</a>	Migrate Camel-websocket to Jetty9
<a href="#">CAMEL-9891</a>	ApplicationReadyEvent not dispatched if camel.springboot.main-run-controller = true
<a href="#">CAMEL-9896</a>	Deadletter Failure processor is invoked even if error handling strategy defines to continue routing
<a href="#">CAMEL-9903</a>	DumpRouteStatsAsXml do not work when jmx domain is customized
<a href="#">CAMEL-9906</a>	camel-sql - Should allow null values as a valid value
<a href="#">CAMEL-9911</a>	RestBindingMode auto not honored
<a href="#">CAMEL-9920</a>	Handle SocketTimeoutException on accept
<a href="#">CAMEL-9921</a>	Dozer variable mapping doesn't work on karaf
<a href="#">CAMEL-9926</a>	HTTP Proxy support in Salesforce component is broken with upgrade to Jetty9
<a href="#">CAMEL-9929</a>	camel-restlet - Using synchronous=false with no error handler leak inflight exchange
<a href="#">CAMEL-9933</a>	Camel-CSV marshalling breaks characters not in default charset
<a href="#">CAMEL-9941</a>	Blueprint bug ARIES-1544 causes issues in Olingo2 configuration
<a href="#">CAMEL-9950</a>	Camel-Websocket: NPE in case minThreads, maxThreads and getThreadPool equals to null
<a href="#">CAMEL-9951</a>	Setup default values for thread-connected properties in WebSocket component
<a href="#">CAMEL-9953</a>	Camel-ssh: Review logic in doStart and doStop in the SshConsumer and SshProducer
<a href="#">CAMEL-9960</a>	create ReaderInputStream align encoding with Exchange

Issue	Description
<a href="#">CAMEL-9968</a>	camel restlet not populating body form parameters correctly for x-www-form-urlencoded
<a href="#">CAMEL-9972</a>	Explicitly add Connection Close HTTP header with a parameter in URI
<a href="#">CAMEL-9973</a>	CdiCamelExtension.shouldDeployDefaultCamelContext throws NPE with primitive injection points
<a href="#">CAMEL-9978</a>	Camel-Kafka: configuration type mismatch for parameter acks
<a href="#">CAMEL-9981</a>	CamelSpringJUnit4ClassRunner registers listeners twice
<a href="#">CAMEL-9984</a>	RabbitConsumer.stop() doesn't stop underlying AutorecoveringConnection obtained from supplied ConnectionFactory
<a href="#">CAMEL-9986</a>	MIME-Multipart Data Format is inconsistent if trying to unmarshal non-MIME data
<a href="#">CAMEL-9995</a>	Camel-JMS: includeAllJMSXProperties parameter doesn't work
<a href="#">ENTESB-2799</a>	Improper Handling of Spring NullPointerException
<a href="#">ENTESB-4223</a>	Feature camel-spring security does not install spring-security-config bundle
<a href="#">ENTESB-4811</a>	Camel 2.17.x.redhat-6-3-x-checkin has multiple test failures
<a href="#">ENTESB-4957</a>	missing package org.apache.geronimo.osgi.locator for features:install pax-*-tomcat
<a href="#">ENTESB-5007</a>	Unable to install camel-websocket and camel-cometd feature
<a href="#">ENTESB-5134</a>	Fuse on EAP: Hawtio findComponentNames lookup fails
<a href="#">ENTESB-5180</a>	can't install camel-cdi - incorrect dependency in features.xml
<a href="#">ENTESB-5181</a>	can't install feature camel-hdfs
<a href="#">ENTESB-5187</a>	can't install feature camel-hbase
<a href="#">ENTESB-5211</a>	NullPointerException in camel-cxf consumer with dataFormat=MESSAGE and JMS transport at the end of Camel route
<a href="#">ENTESB-5237</a>	Can't pass a large, form-encoded POST body through camel-jetty
<a href="#">ENTESB-5406</a>	can't install feature camel-ignite
<a href="#">ENTESB-5407</a>	gson two dependency chains jclouds, camel-ironmq

Issue	Description
<a href="#">ENTESB-5440</a>	camel-cassandraql component does not preserve headers
<a href="#">ENTESB-5457</a>	Camel WebSocket consumer cannot create server (NullPointerException)
<a href="#">ENTESB-5509</a>	jms failing on osgi.wiring.package=javax.jms)(version>=1.1.0)!(version>=2.0.0)
<a href="#">ENTESB-5516</a>	Null Pointer On Deployment When Jetty Bean is used in Blueprint with REST DSL
<a href="#">ENTESB-5543</a>	fix camel-jetty* features
<a href="#">ENTESB-5570</a>	Upgrade jgroups version (TCCL issue)
<a href="#">ENTESB-5575</a>	HDFS2 component - ClassNotFoundException - org.apache.htrace.SamplerBuilder
<a href="#">ENTESB-5647</a>	Need to add MRRC earlyaccess repo
<a href="#">ENTESB-5666</a>	woodstox-core-asl : Jar is not a bundle
<a href="#">ENTESB-5700</a>	[fabric:create] Error executing command: Unable to create zookeeper server configuration
<a href="#">ENTESB-5935</a>	intermittent ServerModel LinkageError when connecting to ssh container
<a href="#">ENTESB-5950</a>	can't install feature camel-olingo2
<a href="#">ZOOKEEPER-2380</a>	[ZOOKEEPER-2380] Deadlock between leader shutdown and forwarding ACK to the leader
<a href="#">ZOOKEEPER-2383</a>	[ZOOKEEPER-2383] Startup race in ZooKeeperServer
<a href="#">ENTESB-4715</a>	support for camel-sap in Fabric mode
<a href="#">ENTESB-5616</a>	Fix SAP Component build of SAP Data Layer update site
<a href="#">ENTESB-5801</a>	Can't build camel-sap-repository in brew

## 5.5. CAMEL ON JBOSS EAP

Table 5.5, “[Camel on JBoss EAP Issues Resolved in 6.3.0](#)” lists the issues resolved in version 6.3.0.

**Table 5.5. Camel on JBoss EAP Issues Resolved in 6.3.0**

Issue	Description
<a href="#">ENTESB-5838</a>	camel-restlet throws NCDFFE for URLEncodedUtils

Issue	Description
<a href="#">ENTESB-5867</a>	Use of ' <code>body.replaceAll()</code> ' leads to logger warning
<a href="#">ENTESB-5780</a>	Add support for camel-ldap
<a href="#">ENTESB-5675</a>	Add support for camel-smpp
<a href="#">ENTESB-5724</a>	Cannot build wildfly-camel / missing slf4j-log4j12 artefact
<a href="#">ENTESB-5667</a>	Braintree module.xml dependency problem
<a href="#">ENTESB-5636</a>	3rd party alignments to Red Hat versions
<a href="#">ENTESB-5647</a>	add MRRC EA repo to support alpha releases
<a href="#">ENTESB-5578</a>	python-2.5.3.jar contains natives and needs investigation
<a href="#">ENTESB-5511</a>	Ensure that jackson annotations are visible to deployment ClassLoader
<a href="#">ENTESB-5503</a>	Update to fuse-patch-2.4.0
<a href="#">ENTESB-5505</a>	Fix bug where camel subsystem config could be added multiple times
<a href="#">ENTESB-5485</a>	Remove hard coded namespace from camel-servergroup XML
<a href="#">ENTESB-5282</a>	Add REST DSL test coverage for Jackson annotated classes
<a href="#">ENTESB-5380</a>	Align with Camel bsh dependency version
<a href="#">ENTESB-5255</a>	Upgrade to fuse patch 2.3.0
<a href="#">ENTESB-5314</a>	Upgrade to jboss-eap-6.4.7.GA (7.5.7.Final-redhat-3)
<a href="#">ENTESB-5282</a>	Add JacksonDataFormat marshalling test coverage for Jackson annotated classes
<a href="#">ENTESB-5141</a>	Update to camel 2.17
<a href="#">ENTESB-5137</a>	Increase timeout values for camel-braintree integration tests
<a href="#">ENTESB-5205</a>	Need to add org.slf4j dependency to org.apache.camel.xml module
<a href="#">ENTESB-5134</a>	Hawtio findComponentNames lookup fails
<a href="#">ENTESB-5028</a>	Add spring-context-support module to Fuse on EAP
<a href="#">ENTESB-3335</a>	Reinstate hawtio tests

Issue	Description
<a href="#">ENTESB-4995</a>	Fix potential classloader leaks in ContextCreateHandlerRegistryService
<a href="#">ENTESB-4664</a>	Add camel-braintree component
<a href="#">ENTESB-5072</a>	Update to fuse-patch-2.1.0
<a href="#">ENTESB-4281</a>	Remove references to community documentation from README files
<a href="#">ENTESB-5006</a>	Expose HttpOperationFailedException from org.apache.camel.component.http4
<a href="#">ENTESB-4769</a>	Rework example to not use unsupported embedded ActiveMQ broker
<a href="#">ENTESB-4389</a>	Add hawtio fuse branding plugin to the ditro
<a href="#">ENTESB-4618</a>	Dozer classloading may fail with spring based context
<a href="#">ENTESB-4900</a>	Dozer cannot find org.apache.el.ExpressionFactory
<a href="#">ENTESB-4606</a>	Port camel-swagger-java to Fuse EAP
<a href="#">ENTESB-4828</a>	elasticsearch may incorrectly wire to the default lucene slot
<a href="#">ENTESB-4607</a>	Port camel-elasticsearch to Fuse-EAP
<a href="#">ENTESB-4790</a>	Examples fail with camel-2.16-redhat
<a href="#">ENTESB-4780</a>	Update to camel-2.16
<a href="#">ENTESB-4615</a>	Remove references to obsolete configuration files
<a href="#">ENTESB-4520</a>	Fix bug with email form field
<a href="#">ENTESB-4227</a>	Add module dependencies to support JPA idempotent consumers
<a href="#">ENTESB-4214</a>	Unable to configure JDBC idempotent consumers

## 5.6. WEB SERVICES

Table 5.6, “[Web Services Issues Resolved in 6.3.0](#)” lists the issues resolved in version 6.3.0.

**Table 5.6. Web Services Issues Resolved in 6.3.0**

Issue	Description
<a href="#">COLLECTIONS-580</a>	[COLLECTIONS-580] Arbitrary remote code execution with InvokerTransformer
<a href="#">CXF-1194</a>	Schema Validation & MTOM fails
<a href="#">CXF-4109</a>	UriInfo getHost caches first request's host and always returns that on subsequent calls
<a href="#">CXF-4817</a>	JAX-RS AsyncResponse implementation needs to call AsyncContext.complete after the request is done
<a href="#">CXF-5348</a>	Exception mappers implementing ExceptionMapper through an abstract class are not mapped to the declared exception
<a href="#">CXF-5640</a>	CXF bundle is not compatible with new spring features from Karaf
<a href="#">CXF-5688</a>	Problem Parsing FIQL Involving Enums
<a href="#">CXF-5744</a>	@XmlTransient behavior change in WSDL fault content
<a href="#">CXF-5788</a>	JMS replyToDestination doesn't work
<a href="#">CXF-5795</a>	Reading the entity from a Response with 202 - Accepted causes NullPointerException
<a href="#">CXF-5844</a>	Annotations inherited from interface not merged with annotations from implementing method
<a href="#">CXF-5846</a>	ClassCastException in org.apache.cxf.jaxrs.provider.BinaryDataProvider & SourceProvider
<a href="#">CXF-5862</a>	NullPointerException in class CustomizationParser
<a href="#">CXF-5878</a>	Disabling policy engine causes NPE
<a href="#">CXF-5897</a>	Relax setter method name restriction for @context injection
<a href="#">CXF-5898</a>	Feature wss4j should be updated after saaj-impl version change
<a href="#">CXF-5899</a>	JAX-RS 2.0 Configuration injection is not supported if DynamicFeature is not registered
<a href="#">CXF-5900</a>	websocket destination in osgi fails to start after being stopped
<a href="#">CXF-5904</a>	wadl2java -inheritResourceParams don't generate parent parameter
<a href="#">CXF-5906</a>	Claim Manager only parses first claim value
<a href="#">CXF-5910</a>	Filters registered by DynamicFeatures match on overloaded resource methods.

Issue	Description
<a href="#">CXF-5911</a>	SoapFault's lang property is not set in case of SOAP 1.1 faults
<a href="#">CXF-5913</a>	logStacktrace Property Not Implemented in MapEventLogger
<a href="#">CXF-5916</a>	WADL contains wrong parameter name for parameter beans
<a href="#">CXF-5917</a>	SAML Response Validator does not decrypt if EncryptedKey is the assertion element child
<a href="#">CXF-5920</a>	JAX-RS Link implementation (LinkBuilder) loses context path
<a href="#">CXF-5938</a>	LuceneQueryVisitor is not reusable / not thread-safe
<a href="#">CXF-5943</a>	Throw error in exceptionmapper
<a href="#">CXF-5946</a>	ensure unregister cxf http transport Servlet OSGi service before we re-register it
<a href="#">CXF-5949</a>	LogBrowser not working
<a href="#">CXF-5952</a>	wadl2java: process representation params
<a href="#">CXF-5953</a>	wadl2java: generate full class name for representation parameter
<a href="#">CXF-5958</a>	incorrect OSGi header in cxf-core bundle
<a href="#">CXF-5961</a>	wadl2java: 'required = false' don't generated for @Multipart argument
<a href="#">CXF-5963</a>	LuceneQueryVisitor should use analyzer to create query properly
<a href="#">CXF-5964</a>	JAX-RS Contexts are injected into Application class too late
<a href="#">CXF-5966</a>	NPE in MessageContextImpl when setting ResponseBuilder entity in an ExceptionMapper
<a href="#">CXF-5968</a>	Setting use.async.http.conduit property causes IllegalArgumentException
<a href="#">CXF-5969</a>	CXF does not pass a generic type to ParamConverterProvider
<a href="#">CXF-5970</a>	review org.apache.cxf.jaxrs.provider.ProviderFactory.Message*ReaderComparator
<a href="#">CXF-5972</a>	Fix all karaf features definitions
<a href="#">CXF-5974</a>	WADLGenerator sets representation media type to application/octet-stream by default
<a href="#">CXF-5976</a>	incompatible with javax.xml.bind.JAXBElement error when using List<JAXBElement<Book>> as resource method param



Issue	Description
CXF-5978	Incomplete dependencies in archetype cxf-jaxrs-service
CXF-5980	JAX-RS 2.0 client: response.readEntity(new GenericType<...>{ }) fails with "unexpected element" UnmarshalException
CXF-5988	Provide support for a pluggable parameter conversion mechanism for JAX-RS client side proxies
CXF-5989	Query Params not showing up in WADL when declared using @BeanParam
CXF-5992	Cannot set org.apache.cxf.stax.maxAttributeCount
CXF-5995	ClientProxyImpl problem with handling @BeanParams with null headers/cookies.
CXF-5999	Moving JiBX related systests into its own module.
CXF-6000	Wrong default algorithm is used for TrustManagerFactory instantiation
CXF-6003	jaxrs:server "basePackages" attribute doesn't initialize REST services properly
CXF-6007	WebClient does not resend request in Digest authentication for HTTP methods GET, HEAD, DELETE, OPTIONS (with no body).
CXF-6010	NPE in MessageModeOutInterceptor.validateFaultDetail for faults with no <detail>
CXF-6015	Path parameters containing semicolon are truncated due to missing encoding
CXF-6020	UriInfo.getAbsolutePath() missing path separator between servlet url and relative url
CXF-6021	WebClient has Accept defaulted to application/xml
CXF-6027	oauth2 client redirect uris are never valid
CXF-6030	javax.xml.ws.soap.SOAPFaultException: Fault string, and possibly fault code, not set for cxf.
CXF-6032	NullPointerException while validating cert for SAML HOK
CXF-6034	Wrong schemaLocation if jax-ws-catalog is used
CXF-6037	in JAX-RS search there is no support for java.sql.Time in fiql
CXF-6038	Repeatedly invoking setHandlerChain() can cause a build up of handler interceptors on the chain

Issue	Description
<a href="#">CXF-6040</a>	need use servicemix wrapped opensaml 2.6.1_2
<a href="#">CXF-6041</a>	Corba Binding is throwing a ObjectNotActive Corba exception being thrown back to application code on endpoint/bus shutdown
<a href="#">CXF-6045</a>	Setting an entity from ClientRequestFilter has no effect if no entity is already set
<a href="#">CXF-6057</a>	WADL to Java code generator does not support the documented "encoding" flag
<a href="#">CXF-6058</a>	NPE in cxf-rt-transport-http org.apache.cxf.transport.http.Headers line 280
<a href="#">CXF-6059</a>	wsdl:fault wsdl2java fails with IllegalArgumentException
<a href="#">CXF-6060</a>	Calling readEntity() on Response created by Response.build() causes NullPointerException
<a href="#">CXF-6061</a>	The publish attribute on jaxws:endpoint doesn't support placeholder in spring configuration
<a href="#">CXF-6062</a>	Interceptors added in Spring Bus configuration are ignored
<a href="#">CXF-6066</a>	JAX-RS 2.0 Client implementation is OOM prone due to its strongly referencing WebTargets
<a href="#">CXF-6067</a>	ProviderFactory fails to analyze generic types correctly with some class hierachies
<a href="#">CXF-6071</a>	CXF's WSDL2Java tool can generate impl classes that jdk compiler will refuse to compile
<a href="#">CXF-6072</a>	jaxrs securityContext.getUserPrincipal is broken if login is done during the request
<a href="#">CXF-6073</a>	cxf-wsn installation in Karaf fails
<a href="#">CXF-6075</a>	NPE may occur at websocket destination under high load
<a href="#">CXF-6076</a>	MediaType parameter not parsed correctly
<a href="#">CXF-6077</a>	In OSGi, the wsdl extensor loaders may not be able to generate their special ExtensibilityELEMENTs
<a href="#">CXF-6078</a>	AnnotationUtils.getAnnotatedMethod for abstract classes not inherit from interface
<a href="#">CXF-6089</a>	XmlAccessorOrder.ALPHABETICAL, Exception.getMessage() duplicate WSDL elements generated
<a href="#">CXF-6090</a>	java.lang.NullPointerException when running wsdl2java

Issue	Description
CXF-6091	Server is not properly stopped with MultipleEndpointObserver
CXF-6092	When there is bad connection/timeout, ClientImpl throws NullPointerException
CXF-6094	wSDL2java - Default key managers cannot be initialized
CXF-6096	http components transport is missing a dependency on commons-logging
CXF-6101	Accept Header not Respected with Response from Custom MessageReader
CXF-6103	Nullable field, in a json payload, was sent as "@nil":"true" instead of an empty string
CXF-6105	CXF 3.x does not use the older WS-SecurityPolicy 1.1 namespace
CXF-6106	ClientResponseFilterInterceptor wraps client response exchange message into ClientRequestContextImpl - as a result code can't access client request context
CXF-6109	Incorrect TrustException constructor in AbstractSTSCient
CXF-6111	JavascriptGetInterceptor.isRecognizedQuery is always false
CXF-6112	org.apache.cxf.jaxrs.impl.ResourceContextImpl#getResource should support a custom ResourceProvider
CXF-6115	Transferable.transferTo can cause infinite loop or stack overflow
CXF-6118	Schema Validation refinements
CXF-6122	JAX-RS proxy client with @QueryParam is not encoding the parameter value
CXF-6127	Check thrown Exception's cause for SOAPFaultException
CXF-6137	WADL generation does not correctly support query parameters
CXF-6138	JAXB unmarshaller Properties can't be configured
CXF-6139	WADLGenerator may produce a schema invalid resource id
CXF-6143	SSL/TLS hostname verification does not strictly follow HTTPS RFC2818
CXF-6145	WS-RM demo server throws exception
CXF-6146	Demo wsdl_first_xmlbeans fails to build
CXF-6147	Part of demo wsdl_first_soap12 doesnt work

Issue	Description
<a href="#">CXF-6149</a>	ContainerRequestContextImpl hasEntity() always returns true for non-GET requests. Similar for ClientResponseContextImpl
<a href="#">CXF-6151</a>	Apache-cxf wsdlvalidator returns error in mime:part
<a href="#">CXF-6152</a>	WSDLValidator may throw ClassCastException under verbose mode
<a href="#">CXF-6153</a>	OAuthRequestFilter throws NullPointerException when "Authorization" header is missing
<a href="#">CXF-6155</a>	Exceptions thrown from ParamConverter generate 500 response
<a href="#">CXF-6160</a>	AsyncResponse infinite loops
<a href="#">CXF-6163</a>	WSDL Javascript generator for xsd:any elements is not correct when any is optional
<a href="#">CXF-6166</a>	Parsing Bug in org.apache.cxf.jaxrs.provider.json.JsonMapObjectReaderWriter
<a href="#">CXF-6172</a>	WS-Discovery should work also in IPv6 only environment
<a href="#">CXF-6176</a>	org.apache.cxf.jaxrs.bus.providers property is not taken in account in cxf bus
<a href="#">CXF-6178</a>	Missing io.netty.util.Version
<a href="#">CXF-6184</a>	HTTPConduit "transport.retransmit.url" property may have side-effects in case of non-redirect retransmits
<a href="#">CXF-6187</a>	JMS sample fails "connectionFactory may not be null"
<a href="#">CXF-6188</a>	Authorization loop using "CurrentWindowsCredentials"
<a href="#">CXF-6189</a>	Improve memory usage of UrlUtils
<a href="#">CXF-6192</a>	Cxf Clustering Blueprint handler doesn't create the distribute feature rightly
<a href="#">CXF-6194</a>	[multipart] Server handle Collection argument as single element
<a href="#">CXF-6198</a>	No SOAPFault for HTTP error code 400
<a href="#">CXF-6204</a>	JAX-RS Set-Cookie parser uses case-sensitive keys
<a href="#">CXF-6209</a>	Bug in processing Signed/Encrypted Elements policies with multiple XPath
<a href="#">CXF-6210</a>	XPath evaluation failure on the client side causes all subsequent evaluations to fail
<a href="#">CXF-6211</a>	JAX-RS client runtime ignores Content-Type set directly from MessageBodyWriter

Issue	Description
<a href="#">CXF-6217</a>	JmsPullPoint does not protect against external entities
<a href="#">CXF-6221</a>	CDI integration extension does not detect annotations on Karaf
<a href="#">CXF-6222</a>	Password can end up in log file
<a href="#">CXF-6228</a>	Using XSLTFeature with large messages creates unremovable temporary files
<a href="#">CXF-6229</a>	EndpointReferenceUtils.getSchema does NOT cache negative schema parsing
<a href="#">CXF-6233</a>	STS client only sends AppliesTo on first RST call
<a href="#">CXF-6234</a>	Invalid ?wsdl response with relative imports/includes when using jaxws-catalog.xml
<a href="#">CXF-6235</a>	wsdl2java behaves differently from cxf-codegen-plugin
<a href="#">CXF-6236</a>	proxyAuthSupplier not used in HTTPConduit.setHeadersByAuthorizationPolicy
<a href="#">CXF-6241</a>	WS-RM doesn't work with WS-Security configured with @EndpointProperties
<a href="#">CXF-6245</a>	Loading non-existent class org.apache.cxf.xmlbeans.XmlBeansWrapperHelper in WrapperClassOutInterceptor is causing performance issues
<a href="#">CXF-6246</a>	missing osgi import of javax.jws
<a href="#">CXF-6250</a>	WebSocket conduit fails to process String based responses and throws NPE
<a href="#">CXF-6252</a>	JAXRS Async Client hangs in case of Connection errors
<a href="#">CXF-6256</a>	Unexpected response code
<a href="#">CXF-6257</a>	Creating and Endpoint using JAX-WS API, getting the binding and then publishing causes a NullPointerException
<a href="#">CXF-6260</a>	JAXRS Async Client can not handle InvocationCallback TypeVariable
<a href="#">CXF-6272</a>	SCT Renew in Secure Conversation
<a href="#">CXF-6274</a>	NullPointerException in DestinationSequence because of RMCaptureInInterceptor not in interceptor chain
<a href="#">CXF-6284</a>	JAX-RS servlet run-time leaks additional strong references
<a href="#">CXF-6285</a>	NPE in SwaggerFeature.calculateDefaultResourcePackage

Issue	Description
<a href="#">CXF-6294</a>	Cannot activate TLSv1.2 cipher suites on client on Java7
<a href="#">CXF-6295</a>	String cannot be cast to org.apache.ws.security.validate.Validator
<a href="#">CXF-6297</a>	JAX-RS BeanValidation feature fails with NPE in JAXRSBeanValidationOutInterceptor on sub-resource call
<a href="#">CXF-6300</a>	cipherSuite configuration does not work with HTTPJ servers
<a href="#">CXF-6302</a>	JAXRS endpoints with URL encoded addresses can not be located
<a href="#">CXF-6304</a>	AuthorizationCodeGrantHandler sets the approved scopes as the requested ones
<a href="#">CXF-6306</a>	AuthorizationCodeGrantService does not record a single pre-registered redirect uri in a session if current request has no redirect uri set
<a href="#">CXF-6307</a>	Wrong select the message body reader
<a href="#">CXF-6309</a>	Client processing exception has its cause set to the original exception wrapped in Fault
<a href="#">CXF-6313</a>	SamHeaderOutInterceptor does not set headers on the message if it had none
<a href="#">CXF-6314</a>	WebSocket transport should not require dependency to jetty
<a href="#">CXF-6315</a>	Optional WS-Addressing policy doesn't return required soap headers
<a href="#">CXF-6317</a>	Authorization not possible with multiple service beans
<a href="#">CXF-6319</a>	Regression: failing namespace resolution after CXF-5891
<a href="#">CXF-6320</a>	Zero-length entity should throw 400 on pre-packaged provider
<a href="#">CXF-6321</a>	Make sure global JAX-RS filters are applied once per request even if made to sub-resource
<a href="#">CXF-6322</a>	AbstractSearchConditionParser not working with UUID fields
<a href="#">CXF-6327</a>	Invalid Policy exception for EndorsingSupportingTokens with more than one token assertions
<a href="#">CXF-6331</a>	Wrap exceptions in JAXRSBeanValidationInvoker into Fault so that these exceptions are exposed to ExceptionMapper-s
<a href="#">CXF-6332</a>	Wadl Genertion: @Description cannot be bound to field
<a href="#">CXF-6336</a>	Client ParamConverterProvider may be lost if Client runs in the server scope

Issue	Description
<a href="#">CXF-6338</a>	Reversed logic in AbstractJwtHandler#validateSignature
<a href="#">CXF-6340</a>	Return value of AsyncResponseImpl.cancel() not follow JAXRS 2.0 javadoc
<a href="#">CXF-6343</a>	EncryptedHeader not properly processed or generated
<a href="#">CXF-6347</a>	CXF bundle activators not called in Eclipse/Equinox
<a href="#">CXF-6352</a>	ContainerResponseContext.getLinks() loses links if they have no 'rel' parameter
<a href="#">CXF-6356</a>	NPE when calling ServiceUnavailableException.getRetryTime()
<a href="#">CXF-6359</a>	NullPointerException when certAlias specified but no keyManagers are configured
<a href="#">CXF-6361</a>	HttpConduit is not detecting the redirect loop properly
<a href="#">CXF-6366</a>	JAX-RS Client runtime does not encode forward slashes in Matrix parameters
<a href="#">CXF-6367</a>	JAX-RS Client runtime does not check BeanParam bean fields
<a href="#">CXF-6368</a>	Unexpected response code
<a href="#">CXF-6369</a>	org.apache.cxf.jaxrs.impl.ConfigurationImpl does not comply with SPEC
<a href="#">CXF-6370</a>	wrong usages for System.arraycopy in org.apache.cxf.jaxrs.impl.AsyncResponseImpl
<a href="#">CXF-6371</a>	WADL Generator does not always correctly deal with generic types
<a href="#">CXF-6373</a>	CompletionCallback can not get the Throwable if error occurs in other interceptor (no serviceinvokerInterceptor)
<a href="#">CXF-6375</a>	Providers.getMessageBodyReader throws NPE
<a href="#">CXF-6377</a>	Wrong media type of response
<a href="#">CXF-6378</a>	LinkBuilderImpl does not resolve relative links against baseUri
<a href="#">CXF-6379</a>	Separate HTTP headers for multiple header values not possible - bug in CXF-3714 fix
<a href="#">CXF-6380</a>	Context provider not working
<a href="#">CXF-6388</a>	NPE has been swallowed in org.apache.cxf.jaxrs.impl.AsyncResponseImpl
<a href="#">CXF-6389</a>	set initialSuspend=true incorrectly when resume the asyncresponse

Issue	Description
<a href="#">CXF-6390</a>	JAXRS Async Client does not always wrap the client side exceptions into ProcessingException
<a href="#">CXF-6392</a>	Schema imports are not handled correctly in generated WSDL and XSD files
<a href="#">CXF-6393</a>	JAXRS Async Client unwraps a parameterized type given to InvocationCallback
<a href="#">CXF-6395</a>	Call setTimeout() in a second request cause illegalStateException from web container.
<a href="#">CXF-6398</a>	AlgorithmSuitePolicyValidator rejects enveloped-signature Transform
<a href="#">CXF-6402</a>	JettyHTTPServerEngine cannot set a provided Jetty Server
<a href="#">CXF-6403</a>	Potential memory leak in PolicyBasedWSS4JInInterceptor and AbstractWSS4JStaxInterceptor
<a href="#">CXF-6406</a>	WS-RM persistence with RMTxStore does not work with JNDI Lookup
<a href="#">CXF-6408</a>	HTTP Conduit throws NPE exception for "invalid" 401 HTTP response
<a href="#">CXF-6415</a>	WS-RM client persistent tests are failing
<a href="#">CXF-6429</a>	Provider matching when nested generic type
<a href="#">CXF-6431</a>	Attachment serialization does not conform to the relevant specs
<a href="#">CXF-6434</a>	SOAPAction value may not be extracted correctly for SOAP 1.2 with Attachments
<a href="#">CXF-6435</a>	Support base64 for attachment encoding in CXF
<a href="#">CXF-6436</a>	NPE in DefaultLogEventMapper when running on cameltransport
<a href="#">CXF-6442</a>	Possible uses constraint violation because of different servlet API versions
<a href="#">CXF-6444</a>	CrossOriginResourceSharingFilter.java should not set Origin=* when Credentials=true
<a href="#">CXF-6446</a>	WADL JavaDocProvider misses operation markers for the docs built with Java 8
<a href="#">CXF-6450</a>	Bad handling of JAX-RS generic interfaces
<a href="#">CXF-6451</a>	Set-Cookie Header incorrectly parsed
<a href="#">CXF-6458</a>	CXF 3.1.0 memory leak (Tomcat)



Issue	Description
CXF-6464	The derived key versions of sign/encrypt in SymmetricBindingHandler don't support attachments
CXF-6466	Closing JAX-RS clients from finalize affects clients sharing the same conduit
CXF-6467	Jaxrs client handles array type property in a form object as a single element
CXF-6468	Secure Conversation Renew is missing Instance creation
CXF-6469	schemaLocation in xsd import is not rewritten correctly in Java 8
CXF-6472	Cannot create ContextResolver for class extending HttpServletRequest, HttpServletResponse, etc.
CXF-6473	Double signatures while using AsymmetricBindingHandler
CXF-6474	UriTemplate should not always ignore an empty/null group value
CXF-6475	problems using CXF as a JAX-RS 2.0 client
CXF-6479	Denial of Service: Regular Expression in StringUtils
CXF-6480	InjectionUtils createThreadLocalServletApiContext better error message for invalid @Context classes
CXF-6481	Jetty HTTPJ session manager Blueprint configuration is not effective
CXF-6484	Regression in Content-id format
CXF-6488	Binding style vs part type R2203 And R2204 problems in wsdl document
CXF-6489	Cannot set ClientSecretVerifier in AbstractTokenService
CXF-6491	wadl2java produces incorrect Consumes annotation for multiple representations on POST methods
CXF-6492	AbstractHTTPDestination class incorrectly assume only one empty space after "Basic" in Authorization header value.
CXF-6493	cxfrt-transport-http-3.1.1.jar contains OSGi interface classes
CXF-6495	Inconsistent RMAsserion may be built for 3.0.x
CXF-6502	JAXRSInInterceptor throw java.lang.IndexOutOfBoundsException if content-type header is empty

Issue	Description
<a href="#">CXF-6506</a>	Client-side message context value HTTP_REQUEST_HEADERS is not shared between SOAP handlers
<a href="#">CXF-6507</a>	WSRM 3.0 may store corrupted message
<a href="#">CXF-6512</a>	The host property is missing in Swagger2 feature's configuration properties
<a href="#">CXF-6513</a>	CXF Using async WebClient with load distribution failover strategy leads to memory leak
<a href="#">CXF-6515</a>	provider sorting not right
<a href="#">CXF-6517</a>	Regression in 3.1.2 attachment handling
<a href="#">CXF-6519</a>	WS-RM - Invalid response for CloseSequence
<a href="#">CXF-6522</a>	ThreadLocalInvocationHandler doesn't handle InvocationTargetException
<a href="#">CXF-6527</a>	WSDLRefValidator reject valid target reference URI/IRI
<a href="#">CXF-6528</a>	JAX-RS "lastModified" generates timestamp with non-standard format
<a href="#">CXF-6534</a>	Kerberos delegation not possible if Authorization given
<a href="#">CXF-6535</a>	Swagger2Feature's properties cannot be set when using Blueprint
<a href="#">CXF-6536</a>	XML pretty printing produces double line spacing if incoming XML contains linefeeds
<a href="#">CXF-6542</a>	Setting the signature digest algorithm on the SAMLCallback does not work for WS-Security
<a href="#">CXF-6543</a>	It's not possible to specify the signature + digest algorithms for self-signed SAML Assertions with JAX-RS
<a href="#">CXF-6547</a>	HTTPTransportActivator Does Not Propagate Servlet Init Parameters
<a href="#">CXF-6548</a>	LoggingOutInterceptor logs the wrong Content-Type for some scenarios
<a href="#">CXF-6550</a>	AsyncConduitHTTPFactory will throw NPE if passed properties are null
<a href="#">CXF-6551</a>	Digest authentication to intermediate HTTP proxy fails with 407 without retry
<a href="#">CXF-6552</a>	Multiple chained schema imports not handled correctly
<a href="#">CXF-6553</a>	Unable to override Content-Type on GET requests

Issue	Description
CXF-6558	DefaultEncryptingOAuthDataProvider.getAccessToken throws SecurityException on invalid accessToken format
CXF-6559	AbstractOAuthDataProvider.refreshAccessToken method can't handle an invalid refresh token
CXF-6561	ResourceOwnerGrantHandler: ResourceOwnerLoginHandler can't return null or throw exception
CXF-6570	FormattedServiceListWriter - meta http-equiv value not quoted
CXF-6574	Issue with Digest Authentication
CXF-6575	WS-A Action generation defect
CXF-6577	MessageContextImpl needs to get a property from a current message first
CXF-6579	Inflated tokens can be corrupted if compression ratio is greater than 2:1
CXF-6580	wsdl2java - Issue with import to default namespace
CXF-6582	Support newer symmetric signature algorithms with WS-SecurityPolicy
CXF-6583	MessageListenerTest#testLocalTransaction fails intermittently
CXF-6584	EncryptSignature is ignored
CXF-6585	Possible to send invalid Soap 1.2 faults
CXF-6588	NPE in providers.getMessageBodyReader
CXF-6590	MAPCodec: memory leak with sync client when soapfaults returned from endpoint
CXF-6591	Aegis DataSourceType.getBytes fails to close the InputStream fetched from DataSource, which prevents the underlying file to be deleted on Windows
CXF-6592	Maven[cxf-java2wadl-plugin] when stylesheetReference are set, package ended with Nullpoint Error
CXF-6593	Some thread-local contexts may get lost on the client side after a refresh
CXF-6595	CXF Karaf feature file: set dependency = true in the jta bundle for CXF
CXF-6599	CXF ProxyHelper might cause OOM like conditions

Issue	Description
<a href="#">CXF-6600</a>	Sudden repeating NPE on token request by STSClient
<a href="#">CXF-6601</a>	Swagger2Feature can hit a NPE when running in localtransport
<a href="#">CXF-6602</a>	Digest algorithms are not set properly when derived keys are used
<a href="#">CXF-6606</a>	Encoded characters in URI are decoded multiple times during preprocess
<a href="#">CXF-6607</a>	Cached STS-issued tokens are not renewed on expiry in delegation scenario
<a href="#">CXF-6609</a>	Data Race in org/apache/cxf/transport/http/HTTPConduit.prepare
<a href="#">CXF-6614</a>	"Comparison method violates its general contract" in DestinationRegistryImpl.getSortedDestinations
<a href="#">CXF-6615</a>	the order of attributes in SubjectDN of certificate shouldn't be significant
<a href="#">CXF-6616</a>	need always close the CipherOutputStream when the encryption is done to get the complete content
<a href="#">CXF-6621</a>	Schema imports are not handled correctly in generated WSDL and XSD files when using catalog rewrites
<a href="#">CXF-6629</a>	ConcurrentModificationException at AbstractResourceInfo.clearProxies()
<a href="#">CXF-6630</a>	Cannot call setAttribute with a null name
<a href="#">CXF-6632</a>	Memory leak due to literal keys in WSDLDefinition map
<a href="#">CXF-6637</a>	@GZIP and similar CXF annotations are not recognized if set on super classes
<a href="#">CXF-6638</a>	AsyncHTTPConduit does not allow body payloads with "PATCH" method
<a href="#">CXF-6640</a>	[Locale Issue] HTTP header Issue for IOS 9 + Chinese Language user
<a href="#">CXF-6641</a>	JWE elliptic curve error
<a href="#">CXF-6642</a>	Memory Leak in ResponseImpl.readEntity()
<a href="#">CXF-6648</a>	Wildcard Content-Type is set for GET
<a href="#">CXF-6653</a>	NPE may result while generating a SequenceFault in WS-RM 1.1
<a href="#">CXF-6655</a>	Error Invalid address. Endpoint address cannot be null

Issue	Description
CXF-6657	CXF Failover using JAXRS prevents header retrieval from ResponseExceptionMappers
CXF-6664	NullPointerException in LinkBuilderImpl#getResolvedUri when linkheader url has a matrix parameter
CXF-6667	Closing a source sequence in WS-RM may lead to inconsistent sequence status
CXF-6668	[wadl2java] @Multipart annotation generated, @QueryParam expected
CXF-6670	Problem with casting ParamConverter responses to primitive types
CXF-6671	Ambiguous JAXRSServerFactoryBean.setApplication() breaks Spring injection
CXF-6673	StaticService setEndpoints(List<String>) doesn't work correctly
CXF-6675	Update commons-collections from 3.2.1 to 3.2.2
CXF-6676	Incorrect Interface Method Name Generation
CXF-6677	Content-Type is empty on POST request with empty body
CXF-6679	@Context HttpServletRequest request.getParameterMap() can't contain post parameters by application/x-www-form-urlencoded
CXF-6682	NullPointerException in LinkBuilderImpl#getResolvedUri when only baseUri is set
CXF-6688	ClientProxylImpl does not populate class-level path params if BeanParam holds the values
CXF-6693	CXF fails to parse Cookie header when it contains \$ character
CXF-6694	SpringResourceFactory does not work with constructor-autowired beans
CXF-6699	DefaultAddress not set in HTTPConduit class
CXF-6701	JAXRS Proxy impl does not check field JAXRS annotations on BeanParam super classes
CXF-6705	Incorrect version in Import-Package for javax.validation for CXF Core
CXF-6706	Bean validation seems to not be working in OSGi
CXF-6709	HttpServletRequest.getInputStream is empty
CXF-6711	Aegis Databinding Deserialization Vulnerability
CXF-6720	AbstractHTTPDestination#WrappedOutputStream.close() calls flush after close

Issue	Description
<a href="#">CXF-6721</a>	NullPointerException for some responses containing SoapFault.
<a href="#">CXF-6729</a>	Version 1 NewCookie is not compliant with RFC 2109
<a href="#">CXF-6730</a>	ClassCastException TransportBinding cannot be cast to AbstractSymmetricAsymmetricBinding in AbstractBindingBuilder
<a href="#">CXF-6743</a>	Inconsistent versions of jax-rs specs can lead to OSGi pain
<a href="#">CXF-6744</a>	Exceptions thrown from methods annotated with @Suspended result in no response at all
<a href="#">CXF-6748</a>	the qop,nc,algorithm parameter in http auth header must not be enclosed between double quotation
<a href="#">CXF-6749</a>	ClassLoader leak on FileUtils.createTmpDir()
<a href="#">CXF-6753</a>	OAuth2 audience support is incomplete
<a href="#">CXF-6754</a>	Determin Media Type in Response
<a href="#">CXF-6759</a>	WADL2JAVA Tools Generated Source has Duplicate Method Name
<a href="#">CXF-6761</a>	JAX-RS ClientImpl does not set TLSClientParameters on HTTPConduit when only HostnameVerifier is configured
<a href="#">CXF-6763</a>	STS requires ClaimHandler even in ClaimMapping only scenarios
<a href="#">CXF-6764</a>	Should add RI JAXB Namespacemapper support
<a href="#">CXF-6768</a>	WS-Discovery missing schema when internet connection not present
<a href="#">CXF-6769</a>	Underscores in values of FIQL search expressions are incorrectly escaped
<a href="#">CXF-6770</a>	PrettyLoggingFilter not working well when using camel-cxf-transport
<a href="#">CXF-6772</a>	HttpClientPolicy browserType is reported as BrowserType header
<a href="#">CXF-6783</a>	ReflectionServiceFactoryBean generates invalid WSDL if anonymousWrapperTypes==true
<a href="#">CXF-6785</a>	AbstractHTTPDestination should handle the case when pathInfo of HttpServletRequest is null
<a href="#">CXF-6787</a>	not sufficient WadlGenerator presence detection
<a href="#">CXF-6793</a>	InvocationCallback doesn't try to get response class type

Issue	Description
CXF-6795	WS-Discovery add support for discovery on localhost
CXF-6799	java.lang.ClassCastException: sun.reflect.generics.reflectiveObjects.ParameterizedTypeImpl cannot be cast to java.lang.reflect.TypeVariable
CXF-6805	cxf-rt-transport-http adds Content-Type header to GET request
CXF-6806	don't mark the optional "encoding" parameter as required for cxf-java2wadl-plugin
CXF-6809	SAMLRequest ID must not start with a Number
CXF-6810	JAX-RS Client one way requests do not work with jms-transport
CXF-6812	WebTargetImpl should always check if client is closed first
CXF-6813	MediaTypeHeaderProvider doesn't check the illegal media type string like "s//tt;type=text/plain"
CXF-6814	ClientRequestFilter should be added with descending order of priority
CXF-6819	ConfigurationImpl returns wrong value for isRegistered(Object obj)
CXF-6820	LinkBuilderImpl#link() doesn't throw exception for invalid input
CXF-6823	Duplicate injectedProviders in ProviderFactory impacting throughput by ~30%
CXF-6828	[OAuth] AbstractGrant set wrong value(scope) for audience
CXF-6832	Attachment content-disposition modification-date not parsed correctly
CXF-6836	Swagger2 tests need to be updated to do a more robust JSON or YAML comparison
CXF-6838	AsyncResponse doesn't use 204 when body is empty
CXF-6842	Unwrap exception nested with WebApplicationException
CXF-6845	Some methods in MessageUtils prone to NPE
CXF-6849	Form parameter names including '%' are not decoded properly
CXF-6850	javax.ws.rs.core.Request implementation doesn't match Accept-Encoding: * for any encoding value
CXF-6867	Envelope and Body element prefixes changed when processing messages without headers

Issue	Description
<a href="#">CXF-6887</a>	http-hc: NPE and incorrept assumption that there is only one bus
<a href="#">CXF-6939</a>	can't install cxf-http-async feature
<a href="#">CXF-7008</a>	Regression: CXF-5788 - JMS replyToDestination doesn't work
<a href="#">CXF-7026</a>	o.a.c.transport.http.osgi.HttpServiceTrackerCust service leak
<a href="#">CXF-7034</a>	should close HttpServiceTracker in HTTPTransportActivator
<a href="#">ENTESB-4398</a>	Arbitrary remote code execution with InvokerTransformer
<a href="#">ENTESB-4933</a>	When cxf service is deployed to child container SwaggerFeature uses root container port instead
<a href="#">ENTESB-4942</a>	missing requirements for features:install cxf-jaxrs-cdi
<a href="#">ENTESB-4957</a>	missing package org.apache.geronimo.osgi.locator for features:install pax-*-tomcat
<a href="#">ENTESB-5008</a>	quiet a few test failure on cxf 3.1.x.redhat-6-3-x-patch branch with JAVA8
<a href="#">ENTESB-5410</a>	please fix duplicate javax.mail in fuse
<a href="#">ENTESB-5442</a>	Swagger2Feature throws an exception
<a href="#">ENTESB-5460</a>	CXF and Camel need olingo version alignment in Fuse
<a href="#">ENTESB-5589</a>	NCDFE when using JAX-WS schema validation on IBM java
<a href="#">ENTESB-5647</a>	Need to add MRRC earlyaccess repo
<a href="#">ENTESB-5700</a>	[fabric:create] Error executing command: Unable to create zookeeper server configuration
<a href="#">ENTESB-5777</a>	can't install cxf-databinding-jibx
<a href="#">ENTESB-5907</a>	CXF's JMSConfiguration replyToDestination does not have any effect
<a href="#">ENTESB-5935</a>	intermittent ServerModel LinkageError when connecting to ssh container
<a href="#">ENTESB-5938</a>	After Multiple Profile Deployments Fabric Container Runs Out of PermGen Space
<a href="#">FEDIZ-156</a>	SAMLRequest ID must not start with a Number
<a href="#">WSS-549</a>	Don't write out a ReferenceList if there are no elements to encrypt



## 5.7. FUSE ON JBOSS EAP

Table 5.7, “Fuse on EAP Issues Resolved in 6.3.0” lists the issues resolved in version 6.3.0.

Table 5.7. Fuse on EAP Issues Resolved in 6.3.0

Issue	Description
<a href="#">ENTESB-4160</a>	BPEL - Domain mode - Deployment throws MySQLIntegrityConstraintViolationException
<a href="#">ENTESB-4513</a>	Exclude itests directory from Camel quickstarts distribution
<a href="#">ENTESB-4747</a>	No SwitchYard schema is included in Fuse 6.2.1
<a href="#">ENTESB-5112</a>	Fuse on EAP Quickstarts fail to build on Fuse 6.3
<a href="#">ENTESB-5255</a>	Failed installation of fuse-eap-installer into the newest jboss-eap
<a href="#">ENTESB-5328</a>	Fuse EAP installer does not work on Windows
<a href="#">ENTESB-5485</a>	Fuse on EAP can't start in domain mode
<a href="#">ENTESB-5503</a>	Fuse EAP installer cannot upgrade from Fuse 6.2.1 to Fuse 6.3 on Windows
<a href="#">ENTESB-5647</a>	Need to add MRRC earlyaccess repo

## 5.8. CONTAINER - 6.3.0

Table 5.8, “Container Issues Resolved in 6.3.0” lists the issues resolved in version 6.3.0.

Table 5.8. Container Issues Resolved in 6.3.0

Issue Number	Description
<a href="#">COLLECTIONS-580</a>	[COLLECTIONS-580] Arbitrary remote code execution with InvokerTransformer
<a href="#">ENTESB-1609</a>	Can not install fuse as system service on AIX7.1
<a href="#">ENTESB-3997</a>	admin:create && admin:start doesn't work after 6.2 P2 patch
<a href="#">ENTESB-4055</a>	Improve Hawt.io Performance
<a href="#">ENTESB-4156</a>	On Windows offline patching causes "javax.management.InstanceAlreadyExistsException: org.fusesource.insight:type=Log Query"
<a href="#">ENTESB-4223</a>	Feature camel-spring security does not install spring-security-config bundle

Issue Number	Description
<a href="#">ENTESB-4231</a>	Unable to unzip RC4 prepatched zip on windows 2012 RC4
<a href="#">ENTESB-4398</a>	Arbitrary remote code execution with InvokerTransformer
<a href="#">ENTESB-4443</a>	null log msg causes org.apache.felix.eventadmin.impl.adapter.LogEventAdapter to be removed
<a href="#">ENTESB-4447</a>	Incompatible TypedQuery exception is thrown when application(Using JPA-Hibernate) bundle is refreshed/re-installed
<a href="#">ENTESB-4450</a>	admin:connect default username is not the sme as admin:create
<a href="#">ENTESB-4458</a>	bin\client.bat doesn't work on windows
<a href="#">ENTESB-4495</a>	Hibernate and Bundle ClassLoaders out of sync on Bundle Refresh
<a href="#">ENTESB-4616</a>	Space in path results in bin/karaf: line 417: [: /home/fuse/te: binary operator expected
<a href="#">ENTESB-4742</a>	Default "org.osgi.framework.system.packages.extra" configuration should be empty
<a href="#">ENTESB-4838</a>	Camel on EAP bundles Spring version other than Karaf
<a href="#">ENTESB-4886</a>	6.2.1 Patching mechanism should support applying rollup patch to non-fabric child containers
<a href="#">ENTESB-4889</a>	Xslt Transformation seems to be broken in Fuse 6.2.1
<a href="#">ENTESB-4902</a>	Fuse 6.2.1 failed to handle maven repository url with special characters like "@" for authentication parameters.
<a href="#">ENTESB-4903</a>	[Solaris 11] local: not found when starting fuse
<a href="#">ENTESB-4921</a>	problem with installing / uninstalling features in fuse 6.3
<a href="#">ENTESB-4935</a>	admin script report wrong pid and wrong status
<a href="#">ENTESB-4954</a>	can't install feature camel-spring-redis
<a href="#">ENTESB-4955</a>	deltaspikes-* features can't be installed (versions 1.3.0 or 1.5.1)
<a href="#">ENTESB-4957</a>	missing package org.apache.geronimo.osgi.locator for features:install pax-*-tomcat
<a href="#">ENTESB-4960</a>	ssh:sshd command lists default values twice
<a href="#">ENTESB-4967</a>	Karaf Wrapper fails if Path to KARAF_HOME Contains Spaces

Issue Number	Description
<a href="#">ENTESB-4980</a>	[Karaf-service] Karaf-service.sh script does nothing on Debian (in docker)
<a href="#">ENTESB-4997</a>	redirect parent and child instance std out to a karaf.out file
<a href="#">ENTESB-4999</a>	Apply the same logic of ENTESB-4935 to karaf.bat script
<a href="#">ENTESB-5003</a>	[Win+Karaf-service] Can't run .exe on win server 2012r2
<a href="#">ENTESB-5015</a>	Aries JPA unable inject jpa context in blueprint
<a href="#">ENTESB-5045</a>	[Karaf-service.sh] Not working on AIX and HPUX
<a href="#">ENTESB-5058</a>	6.3.0 DR2 doesn't start on Windows
<a href="#">ENTESB-5065</a>	localhost:8181/hawtio/index.html not available (404)
<a href="#">ENTESB-5067</a>	"The syntax of the command is incorrect" error when running "shutdown -f"
<a href="#">ENTESB-5104</a>	In JBoss Fuse shell, when running grep, there will be 3 ANSI reset sequence on each line.
<a href="#">ENTESB-5118</a>	Invalid BundleContext when installing patch feature to admin:created container
<a href="#">ENTESB-5131</a>	[6.3] Can't start fuse on solaris 10
<a href="#">ENTESB-5132</a>	[6.3] Solaris 10 does not like a first empty row in the service file
<a href="#">ENTESB-5157</a>	Not able to login when user belongs to jaas PublicKeyLoginModule.
<a href="#">ENTESB-5179</a>	Maven proxy behavior broken
<a href="#">ENTESB-5191</a>	Apparent mismatch between command count with tab completion
<a href="#">ENTESB-5217</a>	Feature Installation - no Refresh of Fragment-Host bundle upon installation of fragment bundle
<a href="#">ENTESB-5323</a>	javax.management.openmbean.KeyAlreadyExistsException thrown by hawtio-osgi-jmx
<a href="#">ENTESB-5332</a>	Fuse doesn't start after unexpected termination
<a href="#">ENTESB-5366</a>	Fuse client fails with java.security.InvalidAlgorithmParameterException
<a href="#">ENTESB-5370</a>	Aries transaction manager fails with background connection validation
<a href="#">ENTESB-5395</a>	Wildcard in NCName for Camel CXF Transport in Blueprint

Issue Number	Description
<a href="#">ENTESB-5399</a>	Fuse on windows does not start without data directory
<a href="#">ENTESB-5401</a>	fix pax-http-tomcat jaxp-api dependencies
<a href="#">ENTESB-5410</a>	please fix duplicate javax.mail in fuse
<a href="#">ENTESB-5540</a>	Exceptions in log after *:help - Service cannot be cast: org.apache.felix.scr.impl.ScrGogoCommand
<a href="#">ENTESB-5550</a>	Bundle "spring-security-config" from servicemix does not contain spring metadata
<a href="#">ENTESB-5588</a>	Switchyard reference throws ClassCastException with IBM java
<a href="#">ENTESB-5608</a>	Revert hard coded v1.7 jdk for darwin in karaf launch script introduced via KARAF-2921
<a href="#">ENTESB-5620</a>	wrapper:install on solaris11 lacks instructions to symlink scripts
<a href="#">ENTESB-5647</a>	Need to add MRRC earlyaccess repo
<a href="#">ENTESB-5683</a>	get Exception when enter "tab" from karaf console
<a href="#">ENTESB-5700</a>	[fabric:create] Error executing command: Unable to create zookeeper server configuration
<a href="#">ENTESB-5716</a>	Can't create child on 111, 115
<a href="#">ENTESB-5760</a>	Can't create child on ssh container
<a href="#">ENTESB-5762</a>	Can't resolve any of the quickstarts in build #125
<a href="#">ENTESB-5792</a>	We are not properly replacing versions in client.bat in jboss-fuse-6.3.0.redhat-131
<a href="#">ENTESB-5795</a>	ldap connection pool not created when using ssl (ldaps)
<a href="#">ENTESB-5850</a>	javax.management.openmbean.KeyAlreadyExistsException thrown at JMX org.apache.karaf - services
<a href="#">ENTESB-5860</a>	Camel-amq quickstart is not processing files
<a href="#">ENTESB-5869</a>	Exception when Encrypting with PGPDDataFormat
<a href="#">ENTESB-5917</a>	6.2.1 R3 prevents base DN lookup in Tivoli LDAP Server
<a href="#">ENTESB-5935</a>	intermittent ServerModel LinkageError when connecting to ssh container
<a href="#">ENTESB-5942</a>	karaf jaas modules test failing on IBM JDK

Issue Number	Description
<a href="#">ENTESB-5961</a>	hawtio not showing activemq tab
<a href="#">ENTESB-6101</a>	Fuse won't start with IBM java
<a href="#">ENTMQ-1683</a>	*:help missing descriptions for activemq commands
<a href="#">KARAF-3240</a>	BundleWatcher should not depend to pax-url-mvn
<a href="#">KARAF-3327</a>	Incorrect LC_CTYPE parsing
<a href="#">KARAF-4005</a>	Different locations for KARAF_HOME and KARAF_BASE
<a href="#">KARAF-4024</a>	role.policy "group" ceased to function
<a href="#">KARAF-4123</a>	Provide a more dynamic default for serviceUrl configuration
<a href="#">KARAF-4150</a>	bin/status fails if KARAF_DEBUG is set
<a href="#">KARAF-4247</a>	Issues with LDAP caching
<a href="#">KARAF-4330</a>	Instance script doesn't return correct PID number if root instance is started two times
<a href="#">KARAF-4348</a>	[RBAC] Wildcard PIDs chosen before more specific ones
<a href="#">KARAF-4373</a>	Karaf.bat script produces "The syntax of the command is incorrect" even if it is working properly
<a href="#">KARAF-4499</a>	Can't start a crashed server on Windows
<a href="#">KARAF-4607</a>	ldap connection pool not created when using ssl (ldaps)
<a href="#">KARAF-4659</a>	Ability to disable ldap listeners
<a href="#">KARAF-4686</a>	ClassLoader leak with RmiRegistryFactory and sun.rmi.transport.tcp.TCPEndpoint
<a href="#">KARAF-4687</a>	ClassLoader leak with java.lang.Exception and karaf.exception library

## 5.9. FUSE FABRIC - 6.3.0

Table 5.9, "Fuse Fabric Issues Resolved in 6.3.0" lists the issues resolved in version 6.3.0.

Table 5.9. Fuse Fabric Issues Resolved in 6.3.0

Issue Number	Description
<a href="#">COLLECTIONS-580</a>	[COLLECTIONS-580] Arbitrary remote code execution with InvokerTransformer
<a href="#">CURATOR-126</a>	IllegalStateException in performBackgroundOperation during close
<a href="#">ENTESB-1769</a>	"Error in initialization script: Command not found: shell:if" after fabric:create on fuse with P2
<a href="#">ENTESB-2699</a>	EnsembleRemove.applyEnsembleConfiguration() Throws StringIndexOutOfBoundsException
<a href="#">ENTESB-3449</a>	Profile-rename Error executing command: versionId when not specifying version
<a href="#">ENTESB-3945</a>	Profile import in fabric results in Container 'root' does not exist
<a href="#">ENTESB-4012</a>	profile-import and profile-refresh don't download the latest snapshot
<a href="#">ENTESB-4073</a>	Creating fabric with profile fabric leads to duplicated profile
<a href="#">ENTESB-4138</a>	JMX mbean operation `setProfileProperty` is not working as expected.
<a href="#">ENTESB-4167</a>	fabric-git-server defaults to admin role and may only be associated with one role
<a href="#">ENTESB-4225</a>	Unable to scale down using fabric:profile-scale command
<a href="#">ENTESB-4362</a>	jgit errors affecting patch management
<a href="#">ENTESB-4367</a>	General patching problems on Windows
<a href="#">ENTESB-4369</a>	Standby Fuse container in active/standby configuration does not expose an SSH service since 6.2
<a href="#">ENTESB-4374</a>	Fabric - Services - MQ, Wiki: Patch branches are visible as versions
<a href="#">ENTESB-4387</a>	[Patch mechanism] Command patch:fabric-synchronize has wrong description
<a href="#">ENTESB-4393</a>	[Patch mechanism] Provision status freezes on installing when upgrading child container
<a href="#">ENTESB-4398</a>	Arbitrary remote code execution with InvokerTransformer
<a href="#">ENTESB-4399</a>	Insight: quickly and periodically refreshes Hawtio and throws errors on remote Fabric containers
<a href="#">ENTESB-4415</a>	Multiple Error messages while updating JBoss A-MQ using new patch mechanism

Issue Number	Description
<a href="#">ENTESB-4422</a>	[Patch mechanism] Option --upload in command patch:fabric-install doesn't work on Windows
<a href="#">ENTESB-4431</a>	[Patch mechanism] Unable to upgrade ssh container with build 073 (container doesn't start)
<a href="#">ENTESB-4432</a>	[Patch mechanism] Cannot create child or ssh container after 6.2.0 to 073 migration in offline environment
<a href="#">ENTESB-4437</a>	zk group - deal with partial creation of sequential node
<a href="#">ENTESB-4443</a>	null log msg causes org.apache.felix.eventadmin.impl.adapter.LogEventAdapter to be removed
<a href="#">ENTESB-4451</a>	[Patch mechanism] Upgrading child container reverts user.properties to karaf default version
<a href="#">ENTESB-4462</a>	[Patch mechanism] Unable to rollback child container to 1.0 after upgrade
<a href="#">ENTESB-4469</a>	NullPointerException during patch:install
<a href="#">ENTESB-4470</a>	Invalid boolean value exception after rollback
<a href="#">ENTESB-4472</a>	[Patch mechanism] Upgrading SSH container results into wrong merged system.properties and general problem with reconnecting to fabric
<a href="#">ENTESB-4474</a>	patch 6.2 GA >> 621 build 73 >> build 078 fails on "auth" bundle on windows
<a href="#">ENTESB-4482</a>	[patching] patch:list shows patch as installed even-though installation failed with exception
<a href="#">ENTESB-4485</a>	Provisioning containers fails with a java.lang.NullPointerException for Maven-URL
<a href="#">ENTESB-4489</a>	Prevent hitting central.maven.org at Fabric creation
<a href="#">ENTESB-4491</a>	[patching] NPE in bin/setenv resolver
<a href="#">ENTESB-4494</a>	Fix Maven worrisome message about repos without ids
<a href="#">ENTESB-4496</a>	NoNode for /fabric/registry/maven/proxy/download/p_0000000002
<a href="#">ENTESB-4497</a>	[patching] Changes in org.ops4j.pax.logging.cfg do not propagate to newer version
<a href="#">ENTESB-4508</a>	HTTP proxy does not work for osgi:install and profile artifact resolution at the same time
<a href="#">ENTESB-4574</a>	HTTP Gateway and URL parameters

Issue Number	Description
<a href="#">ENTESB-4610</a>	Fabric gateway fails because of incorrect use of ShutdownTracker
<a href="#">ENTESB-4622</a>	Please update file name from jboss-fuse-full to jboss-fuse-karaf
<a href="#">ENTESB-4694</a>	[itests] ExampleCamelClusterTest fails in 6-3-x branch
<a href="#">ENTESB-4710</a>	[itests] ExampleCamelCxfTest problems in 6-3-x branch
<a href="#">ENTESB-4742</a>	Default "org.osgi.framework.system.packages.extra" configuration should be empty
<a href="#">ENTESB-4761</a>	Transitive Dependency on org.osgi.core 4.1.0 Breaks Unit Tests
<a href="#">ENTESB-4770</a>	fix swagger dependencies in Fuse BOM
<a href="#">ENTESB-4781</a>	fabric8 6.3 build fails with missing pom for quickstarts
<a href="#">ENTESB-4796</a>	Setting KARAF_DATA Results in Error When Creating Fabric
<a href="#">ENTESB-4808</a>	[itests] ServiceFactoryTest.testZkDisconnectFastReconnect fails sometimes on 6-3-x
<a href="#">ENTESB-4816</a>	[patching] Fix detection of fabric env when initializing patch management
<a href="#">ENTESB-4820</a>	mvn fabric8:zip does not work for quickstart examples.
<a href="#">ENTESB-4827</a>	[itests] ProfileManagement.JolokiaTest/ProfileManagementProxyTest fail sometimes
<a href="#">ENTESB-4834</a>	"start-level" property in <feature> element and 'start="false"' in <bundle> element didn't work in Fuse 6.2.1
<a href="#">ENTESB-4841</a>	Fabric8 - NullPointerException from GitDataStore when having hostname with underscore
<a href="#">ENTESB-4845</a>	java.lang.ClassNotFoundException: net.sf.ehcache.distribution.RMICachePeer_Stub (no security manager: RMI class loader disabled)
<a href="#">ENTESB-4862</a>	Hawtio-Viewing history on profile files throws exception
<a href="#">ENTESB-4886</a>	6.2.1 Patching mechanism should support applying rollup patch to non-fabric child containers
<a href="#">ENTESB-4888</a>	OSGi configurations to the feature does not work in fabric mode if config name contains "-" character.
<a href="#">ENTESB-4894</a>	fabric:create command terminates a script



Issue Number	Description
<a href="#">ENTESB-4902</a>	Fuse 6.2.1 failed to handle maven repository url with special characters like "@" for authentication parameters.
<a href="#">ENTESB-4903</a>	[Solaris 11] local: not found when starting fuse
<a href="#">ENTESB-4918</a>	The fabric:profile-export Command Does Not Export Sub-folders or Specific Profiles
<a href="#">ENTESB-4939</a>	When Creating a A Fabric with External Repo Configuration is Lost Unless Manually Edited in Files
<a href="#">ENTESB-4946</a>	wiring chain issue with package javax.servlet.http
<a href="#">ENTESB-4956</a>	Fabric8 HTTP gateway does not respond to container version changes without a restart
<a href="#">ENTESB-4957</a>	missing package org.apache.geronimo.osgi.locator for features:install pax-*-tomcat
<a href="#">ENTESB-4970</a>	Http gateway logs "listening at port 9000" before being unable to bind to that port.
<a href="#">ENTESB-4971</a>	admin permission is added to first user in users.properties automatically by fabric:create command
<a href="#">ENTESB-4992</a>	patch:add allows to add empty folder
<a href="#">ENTESB-4994</a>	repeated Elasticsearch warning "Error executing request: MapperParsingException[failed to parse]; nested: JsonParseException[Non-standard token 'NaN': enable JsonParser.Feature.ALLOW_NON_NUMERIC_NUMBERS to allow]"
<a href="#">ENTESB-5003</a>	[Win+Karaf-service] Can't run .exe on win server 2012r2
<a href="#">ENTESB-5012</a>	Unnecessary default values in help of some commands
<a href="#">ENTESB-5014</a>	[6.3.015] Can't create SSH container
<a href="#">ENTESB-5022</a>	Authentication Error when Adding Containers to Ensemble
<a href="#">ENTESB-5029</a>	A fabric server generated by "fabric:container-create-ssh" with "--ensemble-server" option will record ERROR log during it's boot up phase
<a href="#">ENTESB-5034</a>	container-edit-jvm-options can not delete a jvm option and it also duplicates all "-D" options
<a href="#">ENTESB-5060</a>	fabric:create causes java.lang.NullPointerException
<a href="#">ENTESB-5065</a>	localhost:8181/hawtio/index.html not available (404)
<a href="#">ENTESB-5075</a>	Fabric - issue with external git repo and provisioning

Issue Number	Description
<a href="#">ENTESB-5085</a>	Patch commands are only available with Fabric container provisioned with the jboss-fuse-full profile
<a href="#">ENTESB-5105</a>	Some profiles in fabric doesn't work out of the box in Fuse running in offline env
<a href="#">ENTESB-5107</a>	Cannot create fabric with user as member as Administrator group via bin/client script
<a href="#">ENTESB-5109</a>	fabric:join command should display a message if container is already connected to fabric
<a href="#">ENTESB-5119</a>	Problem with authentication when creating fabric
<a href="#">ENTESB-5120</a>	[patching] Patching admin:created container causes that all previously installed features are removed
<a href="#">ENTESB-5124</a>	cxfr/rest quickstart "mvn -Ptest" fails
<a href="#">ENTESB-5138</a>	[patching] patch:fabric-install removes previously added features from default profile
<a href="#">ENTESB-5172</a>	Unable to install cxfr-secure-rest quickstart
<a href="#">ENTESB-5174</a>	WARN from jetty happens very regular
<a href="#">ENTESB-5175</a>	All containers have to run while executing fabric:wait-for-provisioning
<a href="#">ENTESB-5179</a>	Maven proxy behavior broken
<a href="#">ENTESB-5186</a>	container-stop operation may report wrong outcome
<a href="#">ENTESB-5191</a>	Apparent mismatch between command count with tab completion
<a href="#">ENTESB-5206</a>	"Client is not started" Exception
<a href="#">ENTESB-5213</a>	Bump licence headers to 2016
<a href="#">ENTESB-5225</a>	fabric:container-delete command does not display an appropriate message
<a href="#">ENTESB-5228</a>	[Fabric] Support empty passwords in external git repos
<a href="#">ENTESB-5242</a>	Patch:show command throws NPE in case of inexistent patch
<a href="#">ENTESB-5253</a>	Profile update via git results in CheckoutConflictException
<a href="#">ENTESB-5254</a>	Container-create-ssh does not respect --new-user and --new-user-password
<a href="#">ENTESB-5257</a>	jsr311-api bundle not included in the distro

Issue Number	Description
<a href="#">ENTESB-5298</a>	profile-export does not export profiles
<a href="#">ENTESB-5361</a>	Container-delete does not fail when the credentials are invalid
<a href="#">ENTESB-5395</a>	Wildcard in NCName for Camel CXF Transport in Blueprint
<a href="#">ENTESB-5396</a>	[patching] Upgrade of container is overriding profile properties
<a href="#">ENTESB-5400</a>	ChildContainers don't have correct RBAC configuration.
<a href="#">ENTESB-5402</a>	SSHContainers don't have correct RBAC configuration.
<a href="#">ENTESB-5424</a>	Pushing invalid branch name to fabric git breaks version-list
<a href="#">ENTESB-5433</a>	Fabric8 Maven Plugin with Multi-module Maven projects only append last module to the bundle list of the created profile on Jboss Fuse 6.2.1.
<a href="#">ENTESB-5437</a>	Fabric HTTP GW does not recognize query params
<a href="#">ENTESB-5443</a>	fabric8 jboss-fuse-full profile is missing some ACL entries for fabric:* commands
<a href="#">ENTESB-5448</a>	camel-cxf-contract-first building fails with ibm1.8 java
<a href="#">ENTESB-5453</a>	beginner/camel-log example uses invalid timer value
<a href="#">ENTESB-5456</a>	java.lang.NullPointerException at io.fabric8.insight.elasticsearch.plugin.InsightIndicesHousekeeperService
<a href="#">ENTESB-5461</a>	profile-refresh command does not update the content of added features.xml
<a href="#">ENTESB-5463</a>	Creating version with invalid name responds with Profile name is invalid
<a href="#">ENTESB-5475</a>	Missing javax.mail jar with the correct version
<a href="#">ENTESB-5478</a>	Downloading of artifacts is frozen due to some file locks in local repository
<a href="#">ENTESB-5488</a>	SSH container cannot resolve SNAPSHOT artifacts uploaded to fabric
<a href="#">ENTESB-5490</a>	fabric:profile-refresh is deleting the folder under the profiles.
<a href="#">ENTESB-5492</a>	[patching] handle overrides.properties better
<a href="#">ENTESB-5513</a>	Fabric maven proxy is not reachable by agent
<a href="#">ENTESB-5517</a>	[patching] allow patch descriptor files starting with jboss-fuse- or jboss-a-mq- name

Issue Number	Description
<a href="#">ENTESB-5562</a>	fabric:create should validate the value passed to "resolver" param
<a href="#">ENTESB-5591</a>	Fabric git pushes rejected due to non fast forward
<a href="#">ENTESB-5619</a>	[itests] ARQ/pax-exam tests affected by package refresh
<a href="#">ENTESB-5633</a>	[patching] Problems upgrading pax-cdi, pax-web, jclouds features
<a href="#">ENTESB-5634</a>	[patching] Migrate serialized container metadata during patching
<a href="#">ENTESB-5635</a>	fabric join not allowing FQDN names throwing Container name 'abc.domain' is invalid. Container name must be: lower-case letters, numbers, and _ or - characters
<a href="#">ENTESB-5647</a>	Need to add MRRC earlyaccess repo
<a href="#">ENTESB-5682</a>	Status of installed 6.2.1 R2 and R3 patch on standalone container is false
<a href="#">ENTESB-5691</a>	Remove fabric-groovy from fabric feature
<a href="#">ENTESB-5700</a>	[fabric:create] Error executing command: Unable to create zookeeper server configuration
<a href="#">ENTESB-5714</a>	JVM options for Fabric managed containers are not aligned
<a href="#">ENTESB-5716</a>	Can't create child on 111, 115
<a href="#">ENTESB-5728</a>	Hawtio throws "Cannot connect to Jolokia to access this Java process" exception for user with role Monitor, while trying to access container perspective
<a href="#">ENTESB-5741</a>	"org.eclipse.jgit.api.errors.JGitInternalException: Invalid ref name: baseline-ssh-fabric8-1.2.0.redhat-621117"
<a href="#">ENTESB-5759</a>	A lot of connection refused in log when creating ssh in offline mode
<a href="#">ENTESB-5760</a>	Can't create child on ssh container
<a href="#">ENTESB-5761</a>	Ssh container in offline mode contains PatchException: can't find baseline
<a href="#">ENTESB-5762</a>	Can't resolve any of the quickstarts in build #125
<a href="#">ENTESB-5816</a>	Changing ZooKeeper settings invalidates ZK client session
<a href="#">ENTESB-5820</a>	HTTP gateway does not show CXF endpoints after container restart
<a href="#">ENTESB-5832</a>	Fabric - Wiki: Void profiles version "container-history" appeared

Issue Number	Description
<a href="#">ENTESB-5836</a>	PatchException during AMQ container fabric:join
<a href="#">ENTESB-5854</a>	etc/org.apache.karaf.features.cfg overwritten with default values on first start
<a href="#">ENTESB-5898</a>	instance.properties not updated after ensemble-add
<a href="#">ENTESB-5904</a>	jmx.acl.whitelist.properties across profiles
<a href="#">ENTESB-5914</a>	patch:add allows to add incorrect file
<a href="#">ENTESB-5926</a>	rest and secure-rest quickstarts do not work on fabric
<a href="#">ENTESB-5935</a>	intermittent ServerModel LinkageError when connecting to ssh container
<a href="#">ENTESB-5938</a>	After Multiple Profile Deployments Fabric Container Runs Out of PermGen Space
<a href="#">ENTESB-5947</a>	Increase default ZooKeeper Retry and Retry Interval
<a href="#">ENTESB-5951</a>	Shell SCR bundle redeploy loop with camel-amq quickstart
<a href="#">ENTESB-5957</a>	Many fabric8 patching tests are failing on windows with UnsupportedOperationException
<a href="#">ENTESB-5958</a>	Fabric - Services - Containers: Containers list disappears when a container migrated to a version not containing one of the current profiles
<a href="#">ENTESB-5986</a>	REST Endpoints are registered under /fabric/registry/clusters/apis/ws/ instead of ..apis/rest
<a href="#">ENTESB-6003</a>	handle PID file delete during patching
<a href="#">ENTESB-6011</a>	Unable to patch fabric root container, when registered as system service on windows
<a href="#">ENTESB-6032</a>	Unable to rollback standalone child container
<a href="#">ENTMQ-1314</a>	PatchException: Invalid baseline-root-amq-6.2.1.redhat-071 specified
<a href="#">ENTMQ-1517</a>	The jboss-a-mq-6.3.0.redhat-012.zip does not startup properly
<a href="#">ENTMQ-1724</a>	Broker in fabric master/slave set up is shut down late when it loses connection to zookeeper
<a href="#">KARAF-3092</a>	Remove \${services-\${karaf.framework}} variables from org.osgi.framework.system.capabilities
<a href="#">KARAF-4155</a>	Fall to feature start-level

Issue Number	Description
<a href="#">SUREFIRE-1187</a>	[SUREFIRE-1187] JUnit4 Provider created unnecessary Runner instance
<a href="#">ZOOKEEPER-2380</a>	[ZOOKEEPER-2380] Deadlock between leader shutdown and forwarding ACK to the leader
<a href="#">ZOOKEEPER-2383</a>	[ZOOKEEPER-2383] Startup race in ZooKeeperServer

## 5.10. MANAGEMENT CONSOLE - 6.3.0

Table 5.10, "Issues Resolved in 6.3.0:" lists the issues resolved between Fuse MQ Enterprise 7.1 and 6.3.0.

Table 5.10. Issues Resolved in 6.3.0:

Issue Number	Description
<a href="#">ENTESB-2401</a>	[user experience] hawtio fabric wiki page missing picture
<a href="#">ENTESB-3387</a>	RH Access - Links in RHA main menu vanish when mouse over
<a href="#">ENTESB-3504</a>	The labels for the Actions submenu on the Wiki page disappear on mouse over
<a href="#">ENTESB-3515</a>	Hawtio provides delete button for root container but it cannot be delete
<a href="#">ENTESB-3956</a>	OSGi: fast switching OSGi tabs causes exception
<a href="#">ENTESB-3957</a>	OSGi - Bundles: Clicking links in a Bundle details page opens the welcome page instead of collapsing a pane content
<a href="#">ENTESB-4021</a>	Camel: Route diagram isn't displayed in IE
<a href="#">ENTESB-4055</a>	Improve Hawt.io Performance
<a href="#">ENTESB-4080</a>	Can't delete queue created in Hawtio when name contains ":"
<a href="#">ENTESB-4165</a>	ActiveMQ - Chart: PersistenceAdapter tree item has "View chart" under Chart tab and no data
<a href="#">ENTESB-4166</a>	ActiveMQ - Browse: Checkboxes at message rows works badly after messages list is manually refreshed
<a href="#">ENTESB-4176</a>	Camel - Camel Contexts - Attributes: Wrong ordering of some columns with text
<a href="#">ENTESB-4177</a>	Camel - Camel Contexts - Attributes: Contexts table isn't refreshed after any context deleted

Issue Number	Description
<a href="#">ENTESB-4183</a>	Filtering is case sensitive
<a href="#">ENTESB-4185</a>	OSGi - Bundles - Table view: Ordering of Version column content is wrong
<a href="#">ENTESB-4186</a>	OSGi - Features: Filtering is case sensitive
<a href="#">ENTESB-4193</a>	OSGi - Services: Bundle (number value) column ordering is lexicographical
<a href="#">ENTESB-4194</a>	OSGi - Declarative Services: Activate button is enabled when Activated service is selected, Deactivate as well
<a href="#">ENTESB-4209</a>	Preferences - Core - Host identification: All colors in color palette are white (IE10)
<a href="#">ENTESB-4219</a>	About page contains unnecessarily 2 same links
<a href="#">ENTESB-4232</a>	Containers - Profiles: Stop, Start, Delete buttons shouldn't be there
<a href="#">ENTESB-4234</a>	Container detail - Provision list: Filtering is case sensitive
<a href="#">ENTESB-4246</a>	Fabric - Wiki: Deleting default version causes exception and disables Wiki page
<a href="#">ENTESB-4253</a>	Fabric - Services - APIs: "APIs, Container, Version" table columns allow only one direction of ordering
<a href="#">ENTESB-4256</a>	Fabric - Services - EIPs: Diagram filtering is case sensitive
<a href="#">ENTESB-4331</a>	Cross Site Scripting Vulnerabilities
<a href="#">ENTESB-4350</a>	Camel on EAP - filtering is not working
<a href="#">ENTESB-4352</a>	Camel on EAP - Route Diagram - ns_error_failure
<a href="#">ENTESB-4365</a>	Unnecessary down arrow
<a href="#">ENTESB-4366</a>	Camel on EAP - Routes - Clear messages should delete message
<a href="#">ENTESB-4370</a>	Camel Debug - Create breakpoint button is not intuitive
<a href="#">ENTESB-4372</a>	Cross in filter field is not unified
<a href="#">ENTESB-4375</a>	Fabric - Services - APIs: Quickstarts link points to a blank page
<a href="#">ENTESB-4379</a>	Camel on EAP - Creating endpoint without choosing component
<a href="#">ENTESB-4380</a>	Camel on EAP - checkboxes are not editable

Issue Number	Description
<a href="#">ENTESB-4381</a>	Camel on EAP - Type converters - Enable/Disable statistics
<a href="#">ENTESB-4385</a>	ContextCreateHandler executed on non camel enabled deployments
<a href="#">ENTESB-4391</a>	Null user on EAP
<a href="#">ENTESB-4404</a>	No automatic reload after Camel Preferences change
<a href="#">ENTESB-4405</a>	Preferences - ID label does not work
<a href="#">ENTESB-4407</a>	Camel on EAP - Showing / Hiding Inflight counter does not work
<a href="#">ENTESB-4417</a>	Preferences - Server Logs: Log batch size setting doesn't work
<a href="#">ENTESB-4418</a>	Camel - two Create Endpoint buttons do different things
<a href="#">ENTESB-4516</a>	Location of containers is displayed differently under Containers and Services tabs
<a href="#">ENTESB-4575</a>	OSGi - getElementByTagName error
<a href="#">ENTESB-4766</a>	Authorization not working for Hawtio on EAP
<a href="#">ENTESB-4862</a>	Hawtio-Viewing history on profile files throws exception
<a href="#">ENTESB-4892</a>	"viewer" has some rights unexpected in hawtio
<a href="#">ENTESB-4919</a>	Child container does not inherit the location from its parent
<a href="#">ENTESB-4928</a>	Missing convertBodyTo icon
<a href="#">ENTESB-4933</a>	When cxf service is deployed to child container SwaggerFeature uses root container port instead
<a href="#">ENTESB-4934</a>	Possible to Create Duplicate Container Processes in Hawtio
<a href="#">ENTESB-4937</a>	Hawtio fails to show custom bundles in OSGi default view
<a href="#">ENTESB-4996</a>	Viewer role able to create/delete queues and messages via Hawtio
<a href="#">ENTESB-5013</a>	hawtio jetty threadpools tab shows no data
<a href="#">ENTESB-5037</a>	Hawtio - clicking on Services/EIPs results in java.lang.SecurityException: Authentication Failed
<a href="#">ENTESB-5059</a>	Fabric - Wiki: Several icons missing in the left navigation with checkboxes



Issue Number	Description
<a href="#">ENTESB-5062</a>	Fabric: missing all tabs except "Containers"
<a href="#">ENTESB-5088</a>	Hawtio JavaScript error when accessing Quartz tab
<a href="#">ENTESB-5191</a>	Apparent mismatch between command count with tab completion
<a href="#">ENTESB-5196</a>	Vanishing items at various menus
<a href="#">ENTESB-5198</a>	Logs: Often Parse error when loading logs
<a href="#">ENTESB-5199</a>	Fabric - Containers - Profiles: Clicking profile's tags causes exception
<a href="#">ENTESB-5200</a>	Fabric - Containers,Services: Remove Stop button when Root container selected
<a href="#">ENTESB-5209</a>	Deleting topics doesn't have a confirmation dialog
<a href="#">ENTESB-5213</a>	Bump licence headers to 2016
<a href="#">ENTESB-5226</a>	Hawtio change behavior of Activate/Deactivate buttons in OSGi/Declarative Services
<a href="#">ENTESB-5244</a>	Fabric - Wiki - Delete version dialog: Change warning for default version
<a href="#">ENTESB-5252</a>	Clicking on Jetty tab shows "Are you sure?" screen for a moment
<a href="#">ENTESB-5324</a>	Health tab in Hawtio not being displayed for fabric containers
<a href="#">ENTESB-5441</a>	Scaling Save and Cancel buttons are not disabled after cancel
<a href="#">ENTESB-5525</a>	Fabric - Containers - Location: Filtering field filters containers instead of locations
<a href="#">ENTESB-5566</a>	Multiple roles defined in hawtio.roles property not working in EAP
<a href="#">ENTESB-5596</a>	OSGi - Declarative Services - {{row.id}} shows up
<a href="#">ENTESB-5622</a>	User with Read-only privilege can delete/move messages through hawtio
<a href="#">ENTESB-5629</a>	Authenticator.checkIfSubjectHasRequiredRoleOnWebsphere method is missing logic to handle multiple roles
<a href="#">ENTESB-5647</a>	Need to add MRRC earlyaccess repo
<a href="#">ENTESB-5657</a>	Fabric - Profiles - Deploy: Creating a new container with profiles version other than default fails
<a href="#">ENTESB-5768</a>	Fabric - Wiki - profile detail: typing in add artifact field is mirrored to another text field

Issue Number	Description
<a href="#">ENTESB-5818</a>	Upgrade httpclient version to latest, at a minimum > 4.3.4
<a href="#">ENTESB-5921</a>	There is not Delete button in Hawtio for SSH container
<a href="#">ENTESB-5935</a>	intermittent ServerModel LinkageError when connecting to ssh container
<a href="#">ENTESB-5958</a>	Fabric - Services - Containers: Containers list disappears when a container migrated to a version not containing one of the current profiles
<a href="#">ENTESB-5976</a>	Hawtio on EAP shows wrong Context Root
<a href="#">ENTMQ-1078</a>	Some characters in the name of queue should not be allowed
<a href="#">ENTMQ-1850</a>	ActiveMQ - Browse: Un/checking all messages doesn't work properly after any message deleted

## 5.11. JON PLUG-INS

Table 5.11, "JON Plug-In Issues Resolved in 6.3.0" lists the issues resolved in version 6.3.0.

Table 5.11. JON Plug-In Issues Resolved in 6.3.0

Issue	Description
<a href="#">ENTESB-5213</a>	Bump licence headers to 2016
<a href="#">FUSEJON-128</a>	StorePercentUsage measurement value is returned by the plug-in as an integer rather than decimal

## CHAPTER 6. ENHANCEMENTS

### 6.1. GENERAL - 6.3.0

Table 6.1, “General Enhancements in 6.3.0” lists the enhancements in version 6.3.0.

Table 6.1. General Enhancements in 6.3.0

Enhancement	Description
<a href="#">ENTESB-4221</a>	Please tidy up jetty port references in our configuration files
<a href="#">ENTESB-4479</a>	Update Jenkins jobs to use Flaky Test Plugin and Surefire rerun failing tests option
<a href="#">ENTESB-4685</a>	Package javadocs with distro
<a href="#">ENTESB-5246</a>	Security Enhancements To Address Vulnerabilities
<a href="#">ENTMQ-1473</a>	[A-MQ, Kahadb] change default config/behaviour to shutdown broker when "java.io.IOException: No space left on device"
<a href="#">ENTESB-4386</a>	Use system specific init scripts
<a href="#">ENTESB-5050</a>	Package Javadoc for Karaf
<a href="#">ENTESB-4296</a>	Patch management needs a productised build
<a href="#">ENTESB-5451</a>	Remove legacy patch artifacts from Fuse 6.3
<a href="#">ENTESB-5803</a>	[patching] split patch-core to impl and api bundles

### 6.2. MESSAGING - 6.3.0

Table 6.2, “Messaging Enhancements in 6.3.0” lists the enhancements in version 6.3.0.

Table 6.2. Messaging Enhancements in 6.3.0

Enhancement	Description
<a href="#">ENTESB-3176</a>	Set OriginalDestination AMQ message property before sending it to DLQ
<a href="#">ENTESB-4135</a>	Update to the JMS 2.0 API
<a href="#">ENTMQ-1432</a>	[A-MQ,kahadb] add configuration so broker will not start if storeUsage limit is not available on the disk
<a href="#">ENTMQ-1498</a>	Work with JMS 2.0 osgi dependency

Enhancement	Description
<a href="#">ENTMQ-1525</a>	[A-MQ, RuntimeConfigurationBroker] allowing policy that applies to multiple destination to be updated.
<a href="#">ENTMQ-1528</a>	JDBC Concurrency
<a href="#">ENTMQ-1628</a>	Stand-alone A-MQ has DBCP2, whilst OSGi version has DBCP1.4
<a href="#">ENTMQ-1836</a>	Temporary store index/log files splitting
<a href="#">ENTMQ-1885</a>	configurable hostname for published address strategy
<a href="#">AMQ-5289</a>	Track forwards across a network in destination statistics
<a href="#">AMQ-5578</a>	preallocate journal files
<a href="#">AMQ-5603</a>	Consider preallocation of journal files in batch increments
<a href="#">AMQ-5621</a>	Unit tests cleanup
<a href="#">AMQ-5636</a>	Upgrade the bundled DBCP component. The current one is very old and buggy.
<a href="#">AMQ-5845</a>	AMQP: Include broker version information in the Connection properties
<a href="#">AMQ-6001</a>	AMQP: Refill sender credit faster to avoid throttling fast producers
<a href="#">AMQ-6015</a>	AMQP: Report more meaningful error conditions when an incoming send fails
<a href="#">AMQ-6077</a>	Better configuration of restricted classes for clients
<a href="#">AMQ-6100</a>	Virtual topic message destination should be the target queue
<a href="#">AMQ-6116</a>	Improve security context authorization cache
<a href="#">AMQ-6126</a>	The corePoolSize value of the TaskRunnerFactory created Executor should be configurable
<a href="#">AMQ-6147</a>	AMQP: Update Proton-J to 0.12.1
<a href="#">AMQ-6149</a>	Pre-configure jolokia
<a href="#">AMQ-6164</a>	queue sendLock prevents concurrent journal updates
<a href="#">AMQ-6167</a>	examples/other/perfharness misses readme and uses broken link.
<a href="#">AMQ-6184</a>	Improve nio transport scalability

Enhancement	Description
<a href="#">AMQ-6203</a>	KahaDB: Allow rewrite of message acks in older logs which prevent cleanup
<a href="#">AMQ-6228</a>	Max Frame Size Error exception shows incorrect values at times
<a href="#">AMQ-6239</a>	Performance issue in PrioritizedPendingListIterator
<a href="#">AMQ-6259</a>	Enable configuration for mqtt-over-ws transport
<a href="#">AMQ-6276</a>	Remove fileserver webapp
<a href="#">AMQ-6277</a>	KahaDB does journal recovery for last append in error in normal restart case
<a href="#">AMQ-6278</a>	Revisit the log level in LeaseDatabaseLocker
<a href="#">AMQ-6292</a>	ACK rewrite task does unnecessary syncs
<a href="#">AMQ-6304</a>	Container-id field blank on sending an AMQP 1.0 open frame to the client
<a href="#">AMQ-6336</a>	QueueBrowser delivers expired messages
<a href="#">AMQ-6403</a>	Allow splitting the temporary message store
<a href="#">CAMEL-8522</a>	Set OriginalDestination AMQ message property before sending it to DLQ
<a href="#">AMQ-3519</a>	Allow getJMSRedelivered flag to survive a restart
<a href="#">AMQ-5847</a>	AMQP: Support transactions that span multiple session for a single TXN
<a href="#">AMQ-6037</a>	AMQP: Add support for sending scheduled message using message annotations
<a href="#">AMQ-6362</a>	Add an option to time out connection attempts when blocked in ensureConnectionInfoSent
<a href="#">ENTMQ-1659</a>	Consider preallocation of journal files in batch increments
<a href="#">AMQ-5962</a>	Update HTTP Client and Core versions
<a href="#">AMQ-5980</a>	Update to the latest Jetty version
<a href="#">AMQ-6084</a>	Have an option to error out if a limit is exceeded
<a href="#">AMQ-5957</a>	Update outdated dependencies used by broker.
<a href="#">AMQ-6044</a>	AMQP: Add support for testing transactions with the test client.

Enhancement	Description
<a href="#">AMQ-6093</a>	Remove deprecated getXURL methods from the BrokerServiceMBean
<a href="#">AMQ-6107</a>	AMQP: Remove deprecated prefetch size configuration option from the transport
<a href="#">AMQ-6178</a>	AMQP: Update Qpid JMS to 0.9.0
<a href="#">AMQ-6181</a>	Upgrade to Joda-time 2.9
<a href="#">AMQ-6309</a>	AMQP: Static code analysis of activemq-amqp
<a href="#">ENTESB-5636</a>	3rd party alignments - built from source strict alignments
<a href="#">ENTMQ-1565</a>	The Readme File For The Stomp Extras Example Needs More Details

## 6.3. SWITCHYARD

Table 6.3, “SwitchYard Enhancements in 6.3.0” lists the enhancements in version 6.3.0.

**Table 6.3. SwitchYard Enhancements in 6.3.0**

Enhancement	Description
<a href="#">ENTESB-4135</a>	Update to the JMS 2.0 API
<a href="#">ENTESB-4479</a>	Update Jenkins jobs to use Flaky Test Plugin and Surefire rerun failing tests option
<a href="#">ENTESB-4587</a>	SY: Support property replacement in 'from' and 'to' camel definitions
<a href="#">ENTESB-4596</a>	SY: Property expansion for soap binding
<a href="#">ENTESB-5100</a>	Transform message to String automatically in HttpMessageComposer#decompose method
<a href="#">ENTESB-5162</a>	SOAP - Externalize binary content in the payload as an attachment automatically
<a href="#">ENTESB-5239</a>	Upgrade Xalan bundle to 2.7.2_3
<a href="#">ENTESB-5597</a>	Change endpoint in camel-bindy camel context
<a href="#">ENTESB-4944</a>	Can't install switchyard-http
<a href="#">ENTESB-5150</a>	Fuse 6.3 SwitchYard version alignment
<a href="#">ENTESB-4196</a>	Align versions of JBoss Logging distributed in Fuse to 3.3.0.Final

Enhancement	Description
<a href="#">ENTESB-4448</a>	Upgrade SwitchYard to OverlordCommons 2.0.18.Final-redhat-2
<a href="#">ENTESB-4824</a>	Resolve issues with CamelAMQPBindingQuickstartTest.java
<a href="#">ENTESB-5021</a>	camel-dozer quickstart needs a Fuse section of instructions
<a href="#">ENTESB-5412</a>	Re-enable tests in jboss-as7/standalone/dist/pom.xml
<a href="#">ENTESB-5636</a>	3rd party alignments - built from source strict alignments

## 6.4. ROUTING

Table 6.4, “Routing Enhancements in 6.3.0” lists the enhancements in version 6.3.0.

**Table 6.4. Routing Enhancements in 6.3.0**

Enhancement	Description
<a href="#">ENTESB-4135</a>	Update to the JMS 2.0 API
<a href="#">ENTESB-4597</a>	Review examples shipped in extras directory for camel & cxf
<a href="#">ENTESB-5375</a>	Avoid creating an empty default Camel context in Camel CDI
<a href="#">ENTESB-5877</a>	Support cassandra-core 3.x in camel-cassandraql feature and bundle
<a href="#">ENTESB-5184</a>	Create camel component for ServiceNow
<a href="#">CAMEL-1002</a>	Quartz support should allow stateful jobs
<a href="#">CAMEL-1005</a>	should we have an annotation - maybe @Handler or something which can mark a method as being the default method invoked by the Bean Binding if no other Camel annotations are used to bind parameters
<a href="#">CAMEL-1011</a>	improve the Bean Ref usage on DOT files generated
<a href="#">CAMEL-1024</a>	[IDEA] could we refactor the expression implementations (invoking JavaScript / Groovy / Ruby / XPath / XQuery et al) so they are easy to invoke from any library - not just from an Exchange?
<a href="#">CAMEL-3907</a>	Component camel-sql needs the ability to process sql from the body of the exchange
<a href="#">CAMEL-4576</a>	Make exception throwing as flexible in XML as in Java DSL

Enhancement	Description
<a href="#">CAMEL-4917</a>	To avoid to confuse end users, a different name should be used for output position of CSV and not position as now (pos vs postion)
<a href="#">CAMEL-5398</a>	Optimize String.replaceAll() to cache Patterns where suitable
<a href="#">CAMEL-5402</a>	Parameter Binding Annotations used for Camel Proxy
<a href="#">CAMEL-5452</a>	DoCatch doesn't notify ExchangeFailureHandledEvent
<a href="#">CAMEL-5561</a>	allow camel:run to auto detect OSGI-INF/*.xml for blueprint XML files or META-INF/beans.xml for CDI to avoid users having to customize camel-maven-plugin configuration on a per project basis
<a href="#">CAMEL-5857</a>	Add server side encryption to header options when constructing an ObjectMetadata for a PUT in the S3Producer
<a href="#">CAMEL-5958</a>	Bindy ignores bean class type
<a href="#">CAMEL-6062</a>	Placeholder cannot be determined in camel property definition
<a href="#">CAMEL-6094</a>	Cannot specify which converter to use when several can do the same conversion
<a href="#">CAMEL-6269</a>	MainSupport in camel-core should make it easier to have callbacks when starting / stopping etc
<a href="#">CAMEL-6338</a>	camel-cdi shouldn't use deltapike bean manager provider in the CamelExtension
<a href="#">CAMEL-6406</a>	Add support to ObjectHelper.getException() for Java 1.7 Throwable.getSuppressed()
<a href="#">CAMEL-6439</a>	camel-jms - Add thread pool for handling timeout when doing request/reply and allow to configure this thread pool
<a href="#">CAMEL-6469</a>	Add StatusLine object to exchange in populateResponse
<a href="#">CAMEL-6646</a>	Support static method calls on OGNL expressions
<a href="#">CAMEL-6858</a>	Delayer EIP - Add JMX attribute to know if any messages are delayed
<a href="#">CAMEL-6913</a>	Add dynamic unmarshalling capability to JiBX data format
<a href="#">CAMEL-6934</a>	Create new Address for every openConnection call
<a href="#">CAMEL-6944</a>	Add exchangeld in the toString() method of the DefaultExchange
<a href="#">CAMEL-6955</a>	Migrate camel-hl7 and camel-syslog from mina to netty



Enhancement	Description
<a href="#">CAMEL-7054</a>	CamelNetty - No way to get ChannelGroup
<a href="#">CAMEL-7193</a>	Assertions are applied an extra, unnecessary time after an assertion period
<a href="#">CAMEL-7247</a>	No way to 'abort' the onCompletion action of the MailConsumer
<a href="#">CAMEL-7454</a>	Camel-Quartz2 Scheduler Name Difference
<a href="#">CAMEL-7463</a>	Why tokenize (and some others) does not support properties substitution?
<a href="#">CAMEL-7474</a>	Error blocks mail-consumer
<a href="#">CAMEL-7528</a>	Aggregate - Allow aggregation repository to report back in-flight exchanges for in-memory repos
<a href="#">CAMEL-7638</a>	Use response input stream directly in http producer
<a href="#">CAMEL-7683</a>	Upgrade camel-hbase component to hbase 0.98.0-hadoop2
<a href="#">CAMEL-7753</a>	xslt component - Store warning/errors etc as exchange properties so end users can get hold of those
<a href="#">CAMEL-7800</a>	camel-swagger - Upgrade to swagger that is pure Java based
<a href="#">CAMEL-7813</a>	Make camel-jms more robust for replyTo
<a href="#">CAMEL-7905</a>	New option to ignore missing consumers on direct endpoints
<a href="#">CAMEL-7907</a>	Add support for JMSCorrelationIDAsBytes to jms component
<a href="#">CAMEL-7974</a>	Provide CircuitBreaker state in an exchange property
<a href="#">CAMEL-7985</a>	camel-test-blueprint - Upgrading to newer felix fails with NPE in fileinstall
<a href="#">CAMEL-8027</a>	Add ByteArrayCodec implementation for udp to camel-netty4
<a href="#">CAMEL-8075</a>	Camel sftp should send a command to check if the connection is broken
<a href="#">CAMEL-8147</a>	Using @ManagedResource on an Endpoint removes all the default JMX properties
<a href="#">CAMEL-8175</a>	camel-swagger - Add support for multiple CamelContexts
<a href="#">CAMEL-8243</a>	Enhance the Infinispan module to add support for HotRod events
<a href="#">CAMEL-8258</a>	camel-twitter - Support Streaming from User Endpoint including Direct Messages

Enhancement	Description
<a href="#">CAMEL-8323</a>	Provide ability to specify node type
<a href="#">CAMEL-8381</a>	XML XSD enriched documentation should maybe word wrap for easier read in raw format
<a href="#">CAMEL-8392</a>	Upgrade Camel-Gora to Gora 0.6
<a href="#">CAMEL-8397</a>	Support Salesforce Analytics
<a href="#">CAMEL-8410</a>	Add stream caching for CxfPayload
<a href="#">CAMEL-8415</a>	DefaultExchangeHolder - Only transfer primitive headers/properties
<a href="#">CAMEL-8438</a>	[Aggregation] [Optimistic Locking] [Hazelcast] Binary representation of same exchanges are different
<a href="#">CAMEL-8446</a>	Camel Toolbox - Add support for @UriParam / @UriParams on component level
<a href="#">CAMEL-8452</a>	Camel route model - Preserve {{ }} placeholders in model
<a href="#">CAMEL-8459</a>	Java DSL - Align beanRef as bean to be similar to xml dsl
<a href="#">CAMEL-8468</a>	Usage of camel-xstream depends on TCCL
<a href="#">CAMEL-8473</a>	DeadLetterChannel - Add onPrepare
<a href="#">CAMEL-8478</a>	IdempotentRepository - Add clear operation
<a href="#">CAMEL-8483</a>	MongoDB Endpoints: Allow ReadPreference to be set on consumers
<a href="#">CAMEL-8488</a>	Java DSL - Improved CBR to detect if endChoice vs end was invalid used
<a href="#">CAMEL-8489</a>	camel-sjms - Allow to create empty message for null body
<a href="#">CAMEL-8491</a>	Camel POJO producer/consumer should defer starting until CamelContext is starting
<a href="#">CAMEL-8497</a>	Add extra capabilities to the github component
<a href="#">CAMEL-8503</a>	camel-jms - Have replyTo options for concurrent consumers
<a href="#">CAMEL-8506</a>	Add SEARCH operation to Elasticsearch component
<a href="#">CAMEL-8509</a>	camel-catalog - Add api to parse endpoint uri and reverse
<a href="#">CAMEL-8511</a>	Properties component - Add encoding option to use when reading the properties files

Enhancement	Description
<a href="#">CAMEL-8512</a>	Simple - Add exchange as function to access the exchange easily
<a href="#">CAMEL-8513</a>	FTP consumer - Add option to use a larger buffer size so download is faster
<a href="#">CAMEL-8514</a>	camel-castor should depend on castor-xml
<a href="#">CAMEL-8516</a>	Salesforce component does not return the list of matching records for HTTP status code 300
<a href="#">CAMEL-8517</a>	Salesforce session handling must declare shared fields volatile
<a href="#">CAMEL-8522</a>	Set OriginalDestination AMQ message property before sending it to DLQ
<a href="#">CAMEL-8523</a>	Spring Boot should automagically load XML routes definitions from classpath
<a href="#">CAMEL-8525</a>	Aggregate - Expose statistics about completed exchanges
<a href="#">CAMEL-8526</a>	EIPs - Expose more statistics for the different EIPs in Java and JMX
<a href="#">CAMEL-8527</a>	Processor in routes should be IdAware so we can easily map from/to its model definition
<a href="#">CAMEL-8528</a>	rest-dsl - Allow producers to control what content-type header to return
<a href="#">CAMEL-8532</a>	Spring Boot applications should block the main thread of the execution
<a href="#">CAMEL-8541</a>	Camel main TestSupport class is incompatible with the CDI specification
<a href="#">CAMEL-8543</a>	Support easy configuration of HTTP proxy parameters for Camel salesforce component and maven plugin
<a href="#">CAMEL-8544</a>	Camel - Dynamic router - unsupported cacheSize attribute
<a href="#">CAMEL-8545</a>	Allow camel-swagger component to run in an internal container
<a href="#">CAMEL-8552</a>	camel-jackson should provide Map => Object converter
<a href="#">CAMEL-8554</a>	camel-jackson should provide Map => Object converter
<a href="#">CAMEL-8558</a>	Camel Catalog - Add humanize component name
<a href="#">CAMEL-8560</a>	camel-mail - Make it easier to configure sort term in XML DSL
<a href="#">CAMEL-8561</a>	Camel Catalog - Add better description of components and others

Enhancement	Description
<a href="#">CAMEL-8562</a>	Removing a route - Should check if the route input endpoint is static and used by other routes
<a href="#">CAMEL-8564</a>	Add support for dataformat ref parameter
<a href="#">CAMEL-8569</a>	Ability to easily extract email attachments
<a href="#">CAMEL-8571</a>	Split EIP - Should use new message id per splitted message
<a href="#">CAMEL-8572</a>	Upgrade aws sdk java version and add support for DynamoDB v2
<a href="#">CAMEL-8576</a>	Added a option to let camel netty take the message body as byte buffer
<a href="#">CAMEL-8579</a>	Upgrade to jclouds 1.9.x
<a href="#">CAMEL-8586</a>	File component optimization required for file response body
<a href="#">CAMEL-8593</a>	JmsEndpoint.configureListenerContainer() some debug logs miss {}
<a href="#">CAMEL-8598</a>	Set default timeouts on workflows registered by the camel-aws / aws-swf component
<a href="#">CAMEL-8600</a>	Change the ftp default separator to be Unix style
<a href="#">CAMEL-8601</a>	Add Support for SFDC-specific Field Types To The Camel SFDC Component
<a href="#">CAMEL-8615</a>	Update Dropbox-core-sdk from 1.7.6 to 1.7.7
<a href="#">CAMEL-8616</a>	Update Twitter4j to latest version
<a href="#">CAMEL-8617</a>	camel-vertx - Add timeout during startup to wait for EventBus to be ready
<a href="#">CAMEL-8618</a>	Camel Catalog - Remove the label commands
<a href="#">CAMEL-8620</a>	Update LightCouch version from 0.1.3 to 0.1.6
<a href="#">CAMEL-8621</a>	Update Apache Kafka version from 0.8.1.1 to 0.8.2.0
<a href="#">CAMEL-8622</a>	Update Apache PdfBox from version 1.6.0 to version 1.8.9
<a href="#">CAMEL-8623</a>	Update Dropwizard Metrics from version 3.1.0 to 3.1.1
<a href="#">CAMEL-8632</a>	httpBindingRef & httpBinding for the servlet component documentation
<a href="#">CAMEL-8634</a>	Wire tap - Should emit event notification about sending to tapped endpoint

Enhancement	Description
<a href="#">CAMEL-8635</a>	XStream no longer supports dynamic CL updates
<a href="#">CAMEL-8640</a>	BacklogTracer allocates 100k elements for an array even it is not enabled
<a href="#">CAMEL-8642</a>	Support to use custom classloader when deserializeJavaObjectFromStream in HttpHelper
<a href="#">CAMEL-8645</a>	Camel Netty component should not intercept consumers with httpMethodRestrict=OPTIONS
<a href="#">CAMEL-8647</a>	Make Camel OSGI Extender Subsystem-Aware
<a href="#">CAMEL-8653</a>	camel-kafka need to commit the last batch offset when shutdown the consumer
<a href="#">CAMEL-8666</a>	Infinispan add other operations to the available
<a href="#">CAMEL-8670</a>	Add spring-ws:uripath endpoint mapping
<a href="#">CAMEL-8681</a>	Camel-Infinispan: use Lifespan and Max Idle Time in the implementation
<a href="#">CAMEL-8684</a>	Load balancer model should not implement processor
<a href="#">CAMEL-8685</a>	Netty should resolve OPTIONS prefix matches earlier
<a href="#">CAMEL-8686</a>	Camel-Infinispan Replace operation can use options Lifespan and Max Idle Time
<a href="#">CAMEL-8691</a>	Camel-docker: Add FollowRedirects and LoggingFilter options to client configuration
<a href="#">CAMEL-8692</a>	Improve the PredicateBuilder with the missing vargs and list or helper method
<a href="#">CAMEL-8693</a>	java.net.URISyntaxException: Invalid uri syntax: Trailing & marker found error should be configurable or skipped
<a href="#">CAMEL-8695</a>	Update apns library to 1.0.0.Beta6
<a href="#">CAMEL-8698</a>	Camel-Infinispan: Add size operation
<a href="#">CAMEL-8700</a>	Camel-OpenShift: Add new operations to available set
<a href="#">CAMEL-8703</a>	Camel-Openshift: Scaling management operations and gitUrl feature
<a href="#">CAMEL-8706</a>	Increase set of parameters for elasticsearch component
<a href="#">CAMEL-8709</a>	Camel-Infinispan: Add Async operations to available set
<a href="#">CAMEL-8710</a>	Make auth configurable for Google app components

Enhancement	Description
<a href="#">CAMEL-8711</a>	JMS Session not exposed to Camel route
<a href="#">CAMEL-8712</a>	User the Netty Timer per Component
<a href="#">CAMEL-8714</a>	Camel-Openshift: Add Environment Variables management
<a href="#">CAMEL-8716</a>	camel-http - Make it easier to extend DefaultHttpBinding and have default no-arg ctor
<a href="#">CAMEL-8725</a>	explainEndpointJson should order the options according to the given order from the endpoint
<a href="#">CAMEL-8726</a>	Camel-Openshift: Add multiple environment variables to application
<a href="#">CAMEL-8728</a>	Hazelcast idempotent repository - Should use locks
<a href="#">CAMEL-8729</a>	Add query all capabilities in hazelcast map producers
<a href="#">CAMEL-8730</a>	Camel-Hazelcast: Add replace operation to map producer
<a href="#">CAMEL-8731</a>	Camel-Hazelcast: Add clear operation to map and multimap producers
<a href="#">CAMEL-8732</a>	File consumer - Allow to sort by random
<a href="#">CAMEL-8733</a>	Camel-Hazelcast: Add the possibility to specify a ttl related to a specific key
<a href="#">CAMEL-8734</a>	camel-netty-http - Should ignore case of context-path
<a href="#">CAMEL-8735</a>	Camel-Hazelcast: Add putIfAbsent operation to map producer
<a href="#">CAMEL-8736</a>	Create new component using Hazelcast JCache implementation
<a href="#">CAMEL-8739</a>	Camel-Hazelcast: Add Replicated Map support
<a href="#">CAMEL-8750</a>	Camel-Infinispan: Add Remove, RemoveAsync, Replace, ReplaceAsync operation for a specific value
<a href="#">CAMEL-8752</a>	camel-fop - Allow to set output format easier
<a href="#">CAMEL-8753</a>	camel-twitter - Allow to configure http proxy on component level
<a href="#">CAMEL-8755</a>	No Message History on deadLetterChannel
<a href="#">CAMEL-8761</a>	Idempotent Consumer EIP - Allow to commit when EIP scope ends
<a href="#">CAMEL-8763</a>	Default error handler should use default redelivery delay of 1 sec

Enhancement	Description
<a href="#">CAMEL-8766</a>	camel-cache - CacheConfiguration - parseURI not needed
<a href="#">CAMEL-8767</a>	camel-elasticsearch - ElasticsearchConfiguration should be a plain pojo
<a href="#">CAMEL-8779</a>	camel-mail - Message copy can be optimized if mapMessage=false
<a href="#">CAMEL-8790</a>	Kafka producer hard coded to use Strings
<a href="#">CAMEL-8795</a>	camel-kafka - Support for Scala 2.11
<a href="#">CAMEL-8799</a>	Make it possible for JsonPath to suppress PathNotFoundException
<a href="#">CAMEL-8801</a>	CamelContext auto-configuration should be conditional
<a href="#">CAMEL-8807</a>	camel-ftp - Add option to turn off sendNoop as alive check
<a href="#">CAMEL-8811</a>	No data coding headers in deliverSM
<a href="#">CAMEL-8818</a>	Set default for SO_TIMEOUT in camel-ftp
<a href="#">CAMEL-8820</a>	Allow to do post logic when creating expression/predicate from routes
<a href="#">CAMEL-8821</a>	Support to disable the stream caching in camel-servlet from the camel context
<a href="#">CAMEL-8824</a>	Add startTimestamp to JMX attributes
<a href="#">CAMEL-8826</a>	Add timezone parameter to Cron Scheduler Route Policy
<a href="#">CAMEL-8835</a>	Replace PojoSR with felix-connect
<a href="#">CAMEL-8836</a>	Remove the joda-time bundle camel-elasticsearch
<a href="#">CAMEL-8842</a>	Camel-Hazelcast: Add addAll and removeAll operation to list
<a href="#">CAMEL-8843</a>	Camel-AWS EC2: Add DescribeInstancesStatus operation to available set
<a href="#">CAMEL-8844</a>	Treat absolute FTP directories as invalid and convert to relative
<a href="#">CAMEL-8845</a>	Property placeholder - service lookup should use underscore instead of dash
<a href="#">CAMEL-8846</a>	camel-archetype-web - Should use servlet as example
<a href="#">CAMEL-8849</a>	Camel-Hazelcast: Add retainAll operation to list
<a href="#">CAMEL-8850</a>	Camel-AWS EC2: Add rebootInstances operation

Enhancement	Description
<a href="#">CAMEL-8851</a>	Camel-AWS EC2: Enabling/Disabling monitoring on instances
<a href="#">CAMEL-8852</a>	Camel JCR doesnt include Connection to a repository workspace except the default one
<a href="#">CAMEL-8856</a>	Camel-Hazelcast: Add evict and evictAll operation to hazelcast map
<a href="#">CAMEL-8857</a>	Camel SCR should create OSGi service for CamelContext
<a href="#">CAMEL-8863</a>	Camel-Hazelcast: Add valueCount operation to multimap
<a href="#">CAMEL-8865</a>	Remove version from URL in Camel web examples
<a href="#">CAMEL-8868</a>	Camel-Hazelcast: Add remainingCapacity operation to queue
<a href="#">CAMEL-8870</a>	Remove version from URL in Maven web archetype
<a href="#">CAMEL-8872</a>	Camel-Hazelcast: Add new operations to HazelcastAtomicNumber producer
<a href="#">CAMEL-8876</a>	Add an option for HttpProducer to ignore response body avoiding stream caching
<a href="#">CAMEL-8877</a>	Camel-Hazelcast: Add containsKey and containsValue operation to map Producer
<a href="#">CAMEL-8879</a>	Camel-sjms doesn't treat InOnly and InOut equally
<a href="#">CAMEL-8882</a>	Camel-AWS EC2: Add options to Run Instance command
<a href="#">CAMEL-8883</a>	Camel-Hazelcast: Add containsKey and containsValue operation to ReplicatedMap and MultiMap Producer
<a href="#">CAMEL-8893</a>	Upgrade to CXF 3.1.x
<a href="#">CAMEL-8894</a>	Support to reconnect the server in ClientMode.
<a href="#">CAMEL-8897</a>	camel-example-servlet-rest-tomcat should include rest-dsl query params docs
<a href="#">CAMEL-8903</a>	Camel-Infinispan: Add ClearAsync operation to producer
<a href="#">CAMEL-8910</a>	Camel-JClouds: Add new operations to JClouds Compute Service Producer
<a href="#">CAMEL-8918</a>	Camel-Jclouds: Add countBlobs and removeBlob operation to Blobstore component
<a href="#">CAMEL-8920</a>	Camel-JClouds: Add new operations to Blobstore component
<a href="#">CAMEL-8921</a>	Cleanup a bit on the example-cdi and archetype



Enhancement	Description
<a href="#">CAMEL-8922</a>	Camel-Jclouds: Use ObjectHelper to check if headers exists
<a href="#">CAMEL-8924</a>	camel-maven-plugin - The goal that generates the list of components etc
<a href="#">CAMEL-8925</a>	camel-vertx - Upgrade to vertx 3
<a href="#">CAMEL-8926</a>	camel-spring - contextScan should allow to exclude non-singletons
<a href="#">CAMEL-8930</a>	Add removeHeader and family to route DSL
<a href="#">CAMEL-8935</a>	camel-spring-ws - Expose more options
<a href="#">CAMEL-8941</a>	Restlet supports binary files only with media type application/octet-stream
<a href="#">CAMEL-8942</a>	aws-sqs - Make it easier to configure http proxy
<a href="#">CAMEL-8943</a>	camel-jetty should use jetty9 as default
<a href="#">CAMEL-8944</a>	Routing engine - When UoW done let the route context be present so MDC logging is possible
<a href="#">CAMEL-8946</a>	Original SSLHandshakeException was overridden by Camel Netty Http producer
<a href="#">CAMEL-8948</a>	CamelBlueprintTestSupport tests have issues with namespace handlers
<a href="#">CAMEL-8956</a>	camel-cxf - The namespace parser should use FactoryBean
<a href="#">CAMEL-8960</a>	direct component - Should defer failing if no active consumer until camel context is started
<a href="#">CAMEL-8961</a>	Update Camel-Docker to support docker-java 1.4.0
<a href="#">CAMEL-8965</a>	Wire Tap EIP - Support dynamic uris
<a href="#">CAMEL-8966</a>	Add a dynamic to that is simpler to use than recipient list
<a href="#">CAMEL-8970</a>	File consumer - Add option to turn on/off whether to delete orphaned marker lock files
<a href="#">CAMEL-8972</a>	ClassLoader leak reported in Apache tomcat
<a href="#">CAMEL-8974</a>	DefaultPropertiesParser does not support the system properties mode
<a href="#">CAMEL-8976</a>	netty-http - Allow to configure max size of headers
<a href="#">CAMEL-8977</a>	Enrich and PollEnrich - Add option ignoreInvalidEndpoint

Enhancement	Description
<a href="#">CAMEL-8980</a>	Add Camel-git feature
<a href="#">CAMEL-8981</a>	camel-test-spring - Allow to use UseOverridePropertiesWithPropertiesComponent
<a href="#">CAMEL-8983</a>	Add random function to simple
<a href="#">CAMEL-8986</a>	Add specialized mbean for enrich and pollEnrich
<a href="#">CAMEL-8987</a>	Vert.x endpoints should support mutliple consumers
<a href="#">CAMEL-8990</a>	camel-guice - Upgrade to v4
<a href="#">CAMEL-8991</a>	rest-dsl - Add support for toD
<a href="#">CAMEL-8992</a>	EIPs with Expression - Allow to detail those in jmx friendly information
<a href="#">CAMEL-8994</a>	Large memory use on Large core count(512) servers
<a href="#">CAMEL-8995</a>	camel-restlet - Should defer UoW done until after writing response
<a href="#">CAMEL-9003</a>	Allow multiple producers with differing request timeouts
<a href="#">CAMEL-9010</a>	camel-stream - When using scanStream it should be able to deal if the file is deleted or not present
<a href="#">CAMEL-9011</a>	Circuit Breaker LB - Only supports 1 processor so validate it has only 1
<a href="#">CAMEL-9015</a>	JMX agent - JVM system properties should always take precedence
<a href="#">CAMEL-9016</a>	<jmxAgent> in XML DSL should not output default values when dumped
<a href="#">CAMEL-9020</a>	Splunk component should use TLS instead of SSLv3
<a href="#">CAMEL-9023</a>	Use Redis String instead of Set as datatype for idempotent consumer
<a href="#">CAMEL-9033</a>	Abstract undertow HttpHandler creation
<a href="#">CAMEL-9036</a>	Camel-Hazelcast: Add support for set Data Structure
<a href="#">CAMEL-9039</a>	Feature camel-core contains bundles, which should be made optional for micro-services deployment
<a href="#">CAMEL-9044</a>	aws-sns - Make it easier to configure http proxy
<a href="#">CAMEL-9045</a>	Camel-aws: Make it easier to configure http proxy

Enhancement	Description
<a href="#">CAMEL-9050</a>	Camel-cassandraql: Add loadbalancingpolicy as uri option
<a href="#">CAMEL-9052</a>	HTTPHeaderFilterStrategy should filter any Camel header on consumer side as well
<a href="#">CAMEL-9054</a>	sftp - Reduce logging noise from JSCH
<a href="#">CAMEL-9055</a>	camel-aws - SQS should not allow handover the delete task
<a href="#">CAMEL-9056</a>	Aggregator - Allow to clear closed correlation key cache
<a href="#">CAMEL-9061</a>	Java DSL - Allow to configure parallel processing and similar using a string configuration type
<a href="#">CAMEL-9062</a>	Java DSL - ValueBuilder should build expressions as languages so they model can be dumped
<a href="#">CAMEL-9063</a>	Add useGetBytesForBlob option in camel-jdbc
<a href="#">CAMEL-9064</a>	File language - Add functions to get extension in single mode
<a href="#">CAMEL-9066</a>	Include any headers unmarshalled by SoapJaxbDataFormat in content marshalled by the same.
<a href="#">CAMEL-9068</a>	Log output to show which route is shutdown and has a pending message
<a href="#">CAMEL-9069</a>	Add processor to immediately handle exception while in retry loop
<a href="#">CAMEL-9078</a>	camel-http - Allow to configure the success range for http status codes
<a href="#">CAMEL-9086</a>	Add support for relative path requests in netty http
<a href="#">CAMEL-9088</a>	camel-pgevent - Use prepared statement and close resources
<a href="#">CAMEL-9093</a>	Provide an unparsed read mode for olingo2
<a href="#">CAMEL-9096</a>	rest-dsl - Reuse logic for matching best rest path to use
<a href="#">CAMEL-9102</a>	CxfEndpoint could use loggingSizeLimit = -1 for no size limit
<a href="#">CAMEL-9105</a>	Camel DefaultHttpBinding should convert response Date headers to HTTP-friendly format
<a href="#">CAMEL-9115</a>	camel-restlet - Should doneUoW using restlet callback
<a href="#">CAMEL-9116</a>	camel-sjms - Should use same binding to/from JMS messages as camel-jms

Enhancement	Description
<a href="#">CAMEL-9118</a>	camel-pgevent, use pg_notify for sending notifications with postgres verion 9 and above
<a href="#">CAMEL-9119</a>	XSLT errors should not be ignored
<a href="#">CAMEL-9131</a>	Camel components - Add more labels to group the options
<a href="#">CAMEL-9145</a>	Upgrade camel-hbase component to hbase 1.1.1 on Hadoop 2.7.1
<a href="#">CAMEL-9153</a>	ThreadPoolRejectedPolicy does not implement Abort as expected
<a href="#">CAMEL-9158</a>	camel-univocity-parsers should initialize in doStart and not use reset flag
<a href="#">CAMEL-9160</a>	Dynamic to - Should use language: as prefix when using other languages
<a href="#">CAMEL-9163</a>	PGP Data Format: Support PGP Messages without Compressed Data packet
<a href="#">CAMEL-9173</a>	camel-artchetype-scr - Should be a simple route example
<a href="#">CAMEL-9174</a>	Main - Make it easier to configure CamelContext before its started
<a href="#">CAMEL-9175</a>	Simple random function - Should trim the min/max values
<a href="#">CAMEL-9178</a>	Apache Camel is not able to read map-id in Dozer mapping xml but does not throw any error
<a href="#">CAMEL-9179</a>	Add uptime to route so we can easily see per route how long time they have been running
<a href="#">CAMEL-9184</a>	Throttler: Rejected message whe rejectExecution=true
<a href="#">CAMEL-9192</a>	camel-elsql - Allow using simple language as named parameters
<a href="#">CAMEL-9193</a>	Aggregator in preCompletion mode should also timeout if the new group does not receive further messages
<a href="#">CAMEL-9194</a>	camel-elasticsearch search request only supports map object
<a href="#">CAMEL-9201</a>	Improved Camel CDI component
<a href="#">CAMEL-9203</a>	camel-amqp should provide qpid dependencies
<a href="#">CAMEL-9204</a>	Provide AMQP component factory method for AMQP 1.0
<a href="#">CAMEL-9207</a>	Make it easy to collate/group N items from a message body with the splitter
<a href="#">CAMEL-9213</a>	CamelContext - explainEndpointJson should not include component properties

Enhancement	Description
<a href="#">CAMEL-9219</a>	Base64 Spring XML tests and documentation
<a href="#">CAMEL-9225</a>	camel-exec - Enrich exception with stdout/stderr
<a href="#">CAMEL-9232</a>	camel-paho - Create exchange correct
<a href="#">CAMEL-9239</a>	camel-sjms - Add completionInterval to batch jms
<a href="#">CAMEL-9240</a>	Abstract CXF endpoint creation for WildFly integration
<a href="#">CAMEL-9244</a>	camel-paho - Endpoint must implement publishing of retained messages option
<a href="#">CAMEL-9249</a>	timer - Allow to specify a delay of -1 or something to indicate loop asap forever
<a href="#">CAMEL-9251</a>	rest-dsl - Allow to configure api-doc route id
<a href="#">CAMEL-9256</a>	Paho file persistence store should be configurable
<a href="#">CAMEL-9258</a>	camel-boon - Serializing/Deserializing Lists, Maps with camel-boon
<a href="#">CAMEL-9263</a>	camel-servlet - Allow to configure the context path without leading slash
<a href="#">CAMEL-9271</a>	Extending RouteDefinition
<a href="#">CAMEL-9274</a>	StreamCache does not work correctly with MarshalProcessor and pretty much all DataFormats
<a href="#">CAMEL-9275</a>	camel-jackson - Allow to use a custom ObjectMapper instance
<a href="#">CAMEL-9278</a>	camel-undertow - Should support multiple rest services
<a href="#">CAMEL-9285</a>	controlbus - Allow to grab current route id so you can control current route easier
<a href="#">CAMEL-9286</a>	Log component - Include log formatter options in docs
<a href="#">CAMEL-9297</a>	Expose more configuration options from Camel's XStream component
<a href="#">CAMEL-9298</a>	camel-netty4 - Connection timeout is already done by netty itself
<a href="#">CAMEL-9303</a>	PropertiesComponent - Allow service host and port to be specified individually
<a href="#">CAMEL-9305</a>	PropertiesComponent.isDefaultCreated method only check the absence of defined locations
<a href="#">CAMEL-9306</a>	XML Signature: Header "CamelXmlSignatureTransformMethods" for Transform Methods

Enhancement	Description
<a href="#">CAMEL-9309</a>	camel-jetty - Make it easier to turn on/off java transport over http
<a href="#">CAMEL-9314</a>	Improve error logging in Kura router
<a href="#">CAMEL-9315</a>	KuraRouter should provide consumer template
<a href="#">CAMEL-9317</a>	camel-salesforce's XStream to use a system property to configure its setting
<a href="#">CAMEL-9325</a>	camel-spring-boot - Allow to use spring xml easier
<a href="#">CAMEL-9326</a>	JndiRegistry should default to use CamelInitialContextFactory if no env factory specified
<a href="#">CAMEL-9328</a>	KuraRouter should provide required and optional service resolvers
<a href="#">CAMEL-9329</a>	Kura router should provide OSGi compendium services
<a href="#">CAMEL-9330</a>	Main - enableHangupSupport should be default enabled
<a href="#">CAMEL-9332</a>	Support @MockEndpoint and @MockEndpointAndSkip in Spring Boot
<a href="#">CAMEL-9333</a>	KuraRouter should try to load XML routes from ConfigAdmin
<a href="#">CAMEL-9335</a>	camel-netty-http - Suppress Connection reset by peer WARNs
<a href="#">CAMEL-9339</a>	camel-cdi - If starting camel-cdi main and no camel found then log a WARN about this
<a href="#">CAMEL-9342</a>	Metrics component should log at debug level
<a href="#">CAMEL-9345</a>	Migrate example to rest-dsl
<a href="#">CAMEL-9346</a>	camel-sql - Add transacted option
<a href="#">CAMEL-9349</a>	ResourceHelper - Allow to load resource from registry
<a href="#">CAMEL-9351</a>	Kura router should offer SCR programming model
<a href="#">CAMEL-9352</a>	camel-jms - Add transferFault option
<a href="#">CAMEL-9355</a>	Current Throttler implementation is not accurate and does not work in a multi-threaded route
<a href="#">CAMEL-9356</a>	Allow delivery receipts with empty shortMessage field
<a href="#">CAMEL-9357</a>	KuraRouter should provide default routes configuration

Enhancement	Description
<a href="#">CAMEL-9358</a>	Support UPDATE request in elastic-search component
<a href="#">CAMEL-9359</a>	DefaultExchangeHolder.marshall() logs NULL header values to WARN
<a href="#">CAMEL-9365</a>	camel-metrics - Allow to configure naming pattern for route policy
<a href="#">CAMEL-9369</a>	Acknowledge messages for RabbitMQ InOut exchange when transferring exception
<a href="#">CAMEL-9371</a>	Add support of Swagger for restlet component
<a href="#">CAMEL-9373</a>	Camel JSSE security - Allow to use custom trust manager
<a href="#">CAMEL-9377</a>	[test-blueprint] support configadmin as source of initial properties for BP camel context
<a href="#">CAMEL-9379</a>	Camel BOM should not include tooling dependencies
<a href="#">CAMEL-9380</a>	Method call expression - Validate bean name for mistake
<a href="#">CAMEL-9382</a>	netty4-http - Hostname should allow without double slash
<a href="#">CAMEL-9388</a>	Provide properties-based AMQP connection discovery
<a href="#">CAMEL-9390</a>	Camel-git: Allow to specify username/email on a commit operation
<a href="#">CAMEL-9395</a>	Reduce the number of default services registered in JMX
<a href="#">CAMEL-9399</a>	Provide support for Publisher Acknowledges
<a href="#">CAMEL-9400</a>	Camel-Elasticsearch: Add Multiget Operation support
<a href="#">CAMEL-9409</a>	wiretap - Allow to use endpoint injected instance
<a href="#">CAMEL-9410</a>	camel-netty-http - should default to port 80 and 443
<a href="#">CAMEL-9427</a>	camel-jetty - Should also support rest-dsl with api-doc
<a href="#">CAMEL-9434</a>	camel-catalog - Add did you mean functionality
<a href="#">CAMEL-9436</a>	camel-catalog - Make it easy to include extra components
<a href="#">CAMEL-9437</a>	Fix checkstyle indentation violation for generated API test cases
<a href="#">CAMEL-9441</a>	Camel-Elasticsearch: Add an operation to know if an index exists or not
<a href="#">CAMEL-9446</a>	camel-swagger-java - Support allowedValues in model generated

Enhancement	Description
<a href="#">CAMEL-9447</a>	camel-swagger-java - Add type for response model
<a href="#">CAMEL-9450</a>	rest-dsl - Configuration allow to use # to refer to beans to be looked up
<a href="#">CAMEL-9454</a>	camel-gora - Should preserve headers
<a href="#">CAMEL-9455</a>	Enhance Google Calendar service account with user impersonation support
<a href="#">CAMEL-9456</a>	Component docs - Add information if a component is deprecated
<a href="#">CAMEL-9457</a>	Camel Main - Stop from JMX should trigger stop of the Main/JVM
<a href="#">CAMEL-9461</a>	camel-sql - Allow to load sql from resource
<a href="#">CAMEL-9469</a>	Properties component - Should include component docs
<a href="#">CAMEL-9470</a>	Add consumer option to component docs
<a href="#">CAMEL-9471</a>	Tokenizer - Add option to skip first
<a href="#">CAMEL-9472</a>	Add multi value to component docs
<a href="#">CAMEL-9473</a>	camel-mail - The from/to/cc/bcc options should be like others and in component docs
<a href="#">CAMEL-9474</a>	camel-jpa - Add consumer options to component docs
<a href="#">CAMEL-9475</a>	Simple - Calling method should favor best matching type
<a href="#">CAMEL-9479</a>	bean/class component - Should use bean. prefix for bean options
<a href="#">CAMEL-9482</a>	Remove some deprecated options on http/http4/servlet
<a href="#">CAMEL-9486</a>	Camel component docs - Add support for username password configured in userinfo part of uri
<a href="#">CAMEL-9488</a>	Camel script - Add missing languages
<a href="#">CAMEL-9492</a>	camel-netty-http - The http/https protocol should be mandatory
<a href="#">CAMEL-9495</a>	camel-hipchat - Should require url for hipchat server
<a href="#">CAMEL-9496</a>	camel-hbase - The mapping options in the uri should use prefix
<a href="#">CAMEL-9500</a>	CamelVersionHelper cannot handle version qualifier



Enhancement	Description
<a href="#">CAMEL-9501</a>	Support to setup the filter InitParameter from Jetty URI
<a href="#">CAMEL-9504</a>	OnCompletion - Keep caught exception so it can access the exception
<a href="#">CAMEL-9508</a>	camel-sjms to support jms 2.0 in osgi manifest
<a href="#">CAMEL-9511</a>	Setting Kafka's endpoint configuration by reference overrides everything instead of merging
<a href="#">CAMEL-9515</a>	Does not handle an expired iterator exception
<a href="#">CAMEL-9517</a>	Validator Component: add clearCachedSchema method to ValidatorEndpoint
<a href="#">CAMEL-9518</a>	Swagger may see non-camel MBeans
<a href="#">CAMEL-9523</a>	Use setStopRow on org.apache.hadoop.hbase.client.Scan
<a href="#">CAMEL-9524</a>	file - Allow to turn on off probe content type
<a href="#">CAMEL-9531</a>	Camel catalog - method call, tokenizer and xtokenizer do not use @XmlValue
<a href="#">CAMEL-9534</a>	XsltComponent: fix support for Saxon-B (and Woodstox)
<a href="#">CAMEL-9539</a>	toString of Exchange/Message should only output id
<a href="#">CAMEL-9549</a>	camel-schematron - More fine grained error messages when compiling the schema
<a href="#">CAMEL-9550</a>	File consumer - Use Filter while deleting orphaned marker lock files
<a href="#">CAMEL-9551</a>	ErrorHandler - Should not log message body by default
<a href="#">CAMEL-9559</a>	camel-undertow - Allow to configure SSL on component level
<a href="#">CAMEL-9564</a>	EndpointHelper.resolveReferenceListParameter should not return immutable lists
<a href="#">CAMEL-9572</a>	Validator Component: Support custom resource resolver which depends on dynamic resource URI of the endpoint
<a href="#">CAMEL-9577</a>	Only support suspension if a component has custom logic
<a href="#">CAMEL-9578</a>	Reduce object creation in InfinispanProducer
<a href="#">CAMEL-9579</a>	Replace deprecated entry listener signature in HazelcastMapConsumer

Enhancement	Description
<a href="#">CAMEL-9580</a>	XSLT Component: Support custom URI resolver which depends on dynamic resource URI of the endpoint
<a href="#">CAMEL-9583</a>	camel-jackson - Allow the FallbackTypeConverter to convert to/from string types
<a href="#">CAMEL-9584</a>	LevelDB - Allow serializable objects in headers
<a href="#">CAMEL-9594</a>	Use swagger.json instead of api-doc in examples
<a href="#">CAMEL-9595</a>	Camel-Kubernetes consumer should use DefaultConsumer and not ScheduledPollConsumer
<a href="#">CAMEL-9596</a>	REST DSL - Jetty component ignores custom HTTP Binding
<a href="#">CAMEL-9601</a>	camel-restlet - Should support the Accept header
<a href="#">CAMEL-9603</a>	Support producer in Kinesis
<a href="#">CAMEL-9604</a>	camel-jpa - Endpoint should be singleton
<a href="#">CAMEL-9605</a>	Allow camel-gson to unmarshall more type by default
<a href="#">CAMEL-9609</a>	camel-aws - SQS allow to configure attribute names easier
<a href="#">CAMEL-9610</a>	Chmod does not work properly with "recursive=true"
<a href="#">CAMEL-9616</a>	Support looking up MetricRegistry by type only in the Metrics component
<a href="#">CAMEL-9620</a>	Support IGNORE_RETURN_VALUES for write ops in Infinispan component
<a href="#">CAMEL-9621</a>	camel-restlet - The producer should support message body as bytes or streams
<a href="#">CAMEL-9624</a>	Add Infinispan remote query support
<a href="#">CAMEL-9625</a>	rest-dsl - Marshal should only happen if content-type is json or xml
<a href="#">CAMEL-9627</a>	Splitup camel-cxf into modules so REST dont pull in old SOAP stuff
<a href="#">CAMEL-9628</a>	camel-cxf - RsEndpoint should be enlisted in JMX
<a href="#">CAMEL-9629</a>	camel-cxf - Allow to configure providers easily from endpoint
<a href="#">CAMEL-9632</a>	Allow for adding ResponseHeader info to documentation.
<a href="#">CAMEL-9635</a>	Continuation settings are only evaluated on first creation for each port/connector

Enhancement	Description
<a href="#">CAMEL-9644</a>	Improve camel-hbase component
<a href="#">CAMEL-9649</a>	Do not require @XmlElement annotation in JAXB FallbackTypeConverter
<a href="#">CAMEL-9653</a>	Bean language - Add support for calling purely static methods
<a href="#">CAMEL-9654</a>	camel-undertow - rest-dsl should support {name} placeholders from path
<a href="#">CAMEL-9655</a>	rest-dsl - Default hostname should be 0.0.0.0
<a href="#">CAMEL-9657</a>	Problems with DefaultCamelContext constructor calling Container.Instance.manage()
<a href="#">CAMEL-9675</a>	Improve loop EIP to act like a while loop
<a href="#">CAMEL-9677</a>	FallbackTypeConverter that are CamelContextAware should have it injected
<a href="#">CAMEL-9684</a>	camel-infinispan : add support for setting query builder in InifispanConfiguration
<a href="#">CAMEL-9693</a>	camel-infinispan : disable building tests on JDK < 1.8
<a href="#">CAMEL-9696</a>	test component - Allow to pass in uri options to endpoint
<a href="#">CAMEL-9697</a>	Test component - Allow to receive in any order, or split using expression
<a href="#">CAMEL-9699</a>	Change the default for DataSets used as sources to zero
<a href="#">CAMEL-9704</a>	rest-dsl - Options requests should not be routed
<a href="#">CAMEL-9705</a>	rest-dsl - Do not allow duplicate verbs
<a href="#">CAMEL-9706</a>	MockEndpoint: isEqualTo predicate does not handle arrays correctly
<a href="#">CAMEL-9711</a>	camel-sql - Allow to use IN queries where the parameter is expanded
<a href="#">CAMEL-9715</a>	Log EIP - Allow to configure the log name globally
<a href="#">CAMEL-9720</a>	camel-spring-boot - Make it easy to keep the JVM running
<a href="#">CAMEL-9726</a>	camel-swagger-java - Add support for yaml
<a href="#">CAMEL-9735</a>	camel-tarfile throws OutOfMemoryError when splitting large files
<a href="#">CAMEL-9736</a>	SolrComponent gets the wrong Content Type
<a href="#">CAMEL-9740</a>	Improve camel-infinispan

Enhancement	Description
<a href="#">CAMEL-9745</a>	Splitter - Should skip null messages if iterator returns null
<a href="#">CAMEL-9752</a>	Quartz2 Scheduled route too many workers
<a href="#">CAMEL-9761</a>	camel-swagger-java - Allow to use custom CORS headers for api-docs
<a href="#">CAMEL-9769</a>	camel-spring-javaconfig - Make the main class easier
<a href="#">CAMEL-9775</a>	Clean configuration meta-datat description
<a href="#">CAMEL-9776</a>	camel-braintree: add uri param to configure advanced options
<a href="#">CAMEL-9782</a>	camel-spring-boot - Allow to configure options on CamelContext using auto config
<a href="#">CAMEL-9790</a>	camel-kafka 2.17 not throwing TimeoutException back which is throw by Kafka client
<a href="#">CAMEL-9791</a>	DeadLetterChannel not triggered on RejectedExecutionException
<a href="#">CAMEL-9796</a>	Internal Access still displayed, no change to JSON generated
<a href="#">CAMEL-9798</a>	camel-cdi - Add support for injecting default ProducerTemplate
<a href="#">CAMEL-9808</a>	SFTP: Enable configuration of bulk requests
<a href="#">CAMEL-9811</a>	camel-cdi - Add support for consumer template injection
<a href="#">CAMEL-9815</a>	Add URI parameter to skip the declaration of the exchange
<a href="#">CAMEL-9818</a>	Camel kafka consumer adds legacy (deprecated properties) in the kafka consumer
<a href="#">CAMEL-9831</a>	Camel-http4: Make possible to use System Properties for configuration
<a href="#">CAMEL-9833</a>	Add mapHttpMessage option to allow to turn off mapping by default
<a href="#">CAMEL-9838</a>	Add ends with operator to simple language
<a href="#">CAMEL-9859</a>	Re-enable Netty4 Channel Options.
<a href="#">CAMEL-9860</a>	csv dataformat - Should have quoteMode option in model
<a href="#">CAMEL-9875</a>	CamelBlueprintTestSupport lacks support for multiple PID loading
<a href="#">CAMEL-9899</a>	camel-rx - Use a worker pool for tasks such as stopping consumers

Enhancement	Description
<a href="#">CAMEL-9900</a>	camel-jms - provide option for MessageListenerContainer for reply managers to stop quicker when CamelContext is stopping
<a href="#">CAMEL-9904</a>	Avoid creating an empty default Camel context in Camel CDI for empty deployments
<a href="#">CAMEL-9905</a>	TarAggregationStragegy should delete temporary files
<a href="#">CAMEL-9915</a>	Allow to use the tarfile data format in XML marshal/unmarshal
<a href="#">CAMEL-9925</a>	Update Salesforce component to use Jetty9
<a href="#">CAMEL-9927</a>	Reduce object creation in RedisProducer
<a href="#">CAMEL-9932</a>	sql-stored - Add support for arrays in grammar
<a href="#">CAMEL-9937</a>	camel-catalog - Add api to validate time pattern
<a href="#">CAMEL-9955</a>	Add uptimeMillis as JMX attribute to CamelContextMBean
<a href="#">CAMEL-9957</a>	camel-kafka producer sends the message in an async way
<a href="#">CAMEL-9962</a>	Add a field in the consumer to define if it subscribed to the topic or not
<a href="#">CAMEL-9963</a>	camel-blueprint - Namespace parser should skip placeholders for component dependencies
<a href="#">CAMEL-9966</a>	Restlet - Should not enable stream by default
<a href="#">CAMEL-9996</a>	Use passed in Camel Context in org.apache.camel.spi.RestConsumerFactory#createConsumer implementations
<a href="#">CAMEL-1004</a>	make it easy to start/stop routes by their definition (RouteBuilder or Route class)
<a href="#">CAMEL-3552</a>	camel-pdf component
<a href="#">CAMEL-3910</a>	Add "Sticky Failover" support in the camel load balancer
<a href="#">CAMEL-4596</a>	enrich and pollEnrich should accept an expression for dynamic uris
<a href="#">CAMEL-4725</a>	camel-sql - Add support for Callable statements
<a href="#">CAMEL-5583</a>	Add ning-compress as data format
<a href="#">CAMEL-5911</a>	seda/vm - Add option to discard message if no active consumers

Enhancement	Description
<a href="#">CAMEL-6098</a>	Add script to the DSL to invoke a expression language and allow noop changes on the Exchange
<a href="#">CAMEL-6415</a>	camel-twitter - Support for the User Stream Endpoint
<a href="#">CAMEL-6649</a>	AWS Simple Email Service - add attachment support
<a href="#">CAMEL-7152</a>	HttpProducer loses response data (specifically which headers where returned)
<a href="#">CAMEL-7378</a>	camel-mongodb: Investigate returning DBCursor to enable streaming of large result sets
<a href="#">CAMEL-7425</a>	Add EventDrivenPollingConsumer option to specify timeout
<a href="#">CAMEL-7433</a>	Please create a preCompletionPredicate for camel aggregator
<a href="#">CAMEL-7434</a>	Provide a way to force the completion of a aggregate exchange from an external event
<a href="#">CAMEL-7609</a>	Add option "shareUnitOfWork" to pattern "enrich"
<a href="#">CAMEL-7808</a>	camel-boon json parser
<a href="#">CAMEL-7833</a>	create an extension of the RX Observable<T> to add more of the Camel DSL in there (e.g. to() or to go back to the general camel DSL)
<a href="#">CAMEL-7865</a>	Support to carry file attributes on file endpoint
<a href="#">CAMEL-7877</a>	json DataFormat: support the prettyPrint option by all the supported JSON libraries
<a href="#">CAMEL-7982</a>	camel-git - A generic git component
<a href="#">CAMEL-7999</a>	Camel Toolbox - Easy information about all Camel components and the release for tooling
<a href="#">CAMEL-8054</a>	Use SharedEntityManager to reduce connections
<a href="#">CAMEL-8093</a>	Adding Message headers for sinceid, maxid, user
<a href="#">CAMEL-8211</a>	Camel commands - camel-component-info
<a href="#">CAMEL-8269</a>	camel-salesforce: support for Salesforce Apex API
<a href="#">CAMEL-8317</a>	XML DSL - Allow to use bean property style to configure endpoint options
<a href="#">CAMEL-8413</a>	camel-stomp - Allow to configure SSL
<a href="#">CAMEL-8465</a>	Add groups/getPosts endpoint to camel-linkedin

Enhancement	Description
<a href="#">CAMEL-8487</a>	Custom arguments to RabbitMQ queues
<a href="#">CAMEL-8496</a>	Create Camel Paho component
<a href="#">CAMEL-8507</a>	camel-rabbitmq - Support for the mandatory and immediate flags
<a href="#">CAMEL-8531</a>	Make it easy to get the management mbean for a given process by its id
<a href="#">CAMEL-8538</a>	Add inOut support for the RabbitMQ component
<a href="#">CAMEL-8563</a>	camel-ftp - Add support for account option for login
<a href="#">CAMEL-8565</a>	Support for camel-gson to handle generic types
<a href="#">CAMEL-8656</a>	camel-test - Add option to dump route stats to file
<a href="#">CAMEL-8696</a>	Allow ApnsNotification/EnhancedApnsNotification instances to be send to apns endpoints
<a href="#">CAMEL-8727</a>	File consumer - Add read lock that is based on idempotent repository
<a href="#">CAMEL-8740</a>	DeadLetterChannel - Add SPI so custom components can prepare message for DLC
<a href="#">CAMEL-8762</a>	Support for adding multiple services with same interface in CamelBlueprintTestSupport
<a href="#">CAMEL-8777</a>	Calendar component - support for Google Service Accounts
<a href="#">CAMEL-8808</a>	Create Grape component
<a href="#">CAMEL-8817</a>	Expose additional geolocation parameters in standard search
<a href="#">CAMEL-8825</a>	Add support to AWS EC2 inside Camel-AWS component
<a href="#">CAMEL-8832</a>	Add =~ operation as equals ignore case operation to simple language
<a href="#">CAMEL-8834</a>	Camel-AWS EC2: Add describeInstances Operation
<a href="#">CAMEL-8837</a>	camel-archetype-cdi
<a href="#">CAMEL-8855</a>	camel-jpa - Add support for JPA producer to delete records
<a href="#">CAMEL-8861</a>	Add a factory to support custom websocket sub-protocol
<a href="#">CAMEL-8873</a>	Management api for ErrorHandler to expose stats about pending exchanges scheduled for redelivery

Enhancement	Description
<a href="#">CAMEL-8880</a>	Enable ability to expose Camel JMX service using IP address via API
<a href="#">CAMEL-8936</a>	camel-test-cdi - Create a test module for cdi
<a href="#">CAMEL-8952</a>	Expression or predicates - allow to refer to external script on file/classpath
<a href="#">CAMEL-8969</a>	Add component for CoAP
<a href="#">CAMEL-8996</a>	camel-undertow - Add support for Exchange.HTTP_QUERY
<a href="#">CAMEL-8997</a>	Camel-Git: Add a show branches operation
<a href="#">CAMEL-9006</a>	Add ability to use the same rest route for multiple components
<a href="#">CAMEL-9014</a>	Add statistics for usage of endpoints in EIPs
<a href="#">CAMEL-9085</a>	Create a Camel-Kubernetes/Openshift v3 Component
<a href="#">CAMEL-9097</a>	XSLT Aggregation Strategy
<a href="#">CAMEL-9111</a>	Camel Tarfile component
<a href="#">CAMEL-9128</a>	Camel-Hazelcast: Add a Ringbuffer producer
<a href="#">CAMEL-9129</a>	Create OptionsVerbDefinition - REST
<a href="#">CAMEL-9156</a>	camel-swagger-java - Add JMX and Camel commands
<a href="#">CAMEL-9157</a>	JMX - Add dataformat as mbean category
<a href="#">CAMEL-9162</a>	camel-elsql component
<a href="#">CAMEL-9172</a>	JOLT Component
<a href="#">CAMEL-9180</a>	camel-cmis Lazy Initialize Session Facade
<a href="#">CAMEL-9186</a>	Camel-Scala: Ability to add route policy in the Scala DSL based route definition
<a href="#">CAMEL-9187</a>	Add support in endpoint for setting splunk event host field
<a href="#">CAMEL-9189</a>	Jackson XML Mapper Data format
<a href="#">CAMEL-9206</a>	add Kerberos Security into camel-HBase
<a href="#">CAMEL-9212</a>	Enable dynamic values in the headerName / propertyName



Enhancement	Description
<a href="#">CAMEL-9224</a>	Camel specific commands for spring boot shell
<a href="#">CAMEL-9252</a>	Batch camel messages
<a href="#">CAMEL-9267</a>	camel-nats - A java client component for the nats broker
<a href="#">CAMEL-9268</a>	camel-okhttp - Using the popular okhttp client
<a href="#">CAMEL-9280</a>	Allow passing custom headers to the proxy server in camel-smpp component
<a href="#">CAMEL-9283</a>	Data Format for MIME-Multipart
<a href="#">CAMEL-9312</a>	Rest DSL should support defaulting values for query strings
<a href="#">CAMEL-9364</a>	Add ability to receive onOpen/onClose/onError websocket events through camel rout.
<a href="#">CAMEL-9376</a>	Camel-Kubernetes: add a Namespace-based consumer
<a href="#">CAMEL-9385</a>	Create Apache Spark component
<a href="#">CAMEL-9389</a>	camel-metrics - Allow to capture message history easily
<a href="#">CAMEL-9392</a>	Add ability to pass parameters within websocket url and handle them in onOpen event
<a href="#">CAMEL-9393</a>	Add ability to send a message to multiple defined connections with guaranty of delivery
<a href="#">CAMEL-9416</a>	Creation of Camel-MLLP component
<a href="#">CAMEL-9418</a>	camel-elasticsearch: make client.transport.sniff configurable
<a href="#">CAMEL-9430</a>	Create camel-component for braintreepayments
<a href="#">CAMEL-9445</a>	camel-ignite: New Apache Ignite component
<a href="#">CAMEL-9449</a>	Allow to specify custom exit code when camel exits due to expired Duration
<a href="#">CAMEL-9452</a>	Camel-Elasticsearch: Support Multisearch operation
<a href="#">CAMEL-9453</a>	Camel-Git: Add support for cherry-pick operation
<a href="#">CAMEL-9507</a>	Support suppressing body from aws-s3 consumer
<a href="#">CAMEL-9542</a>	Allow HttpClient configuration (proxy, connection pooling, etc) for camel-geocoder component

Enhancement	Description
<a href="#">CAMEL-9544</a>	Option to add headers to MIME-Multipart in DataFormat
<a href="#">CAMEL-9586</a>	Create camel-etcd
<a href="#">CAMEL-9591</a>	Support Saxon integrated extension functions
<a href="#">CAMEL-9633</a>	quartz2 - Add support for specifying custom calendar
<a href="#">CAMEL-9637</a>	camel-netty - Allow to reuse previous Channel in next call
<a href="#">CAMEL-9645</a>	Add messageHistory function to simple to allow to dump it anywhere
<a href="#">CAMEL-9648</a>	IronMQ Component
<a href="#">CAMEL-9652</a>	camel-spark-rest - Add support for hosting swagger api
<a href="#">CAMEL-9659</a>	Create new component for GridFS
<a href="#">CAMEL-9661</a>	YAML DataFormat
<a href="#">CAMEL-9679</a>	Support for Hessian serialization - add new Data Format
<a href="#">CAMEL-9681</a>	Add an option to enable/disable cache creation
<a href="#">CAMEL-9685</a>	camel-infinispan : support continuous query in consumer
<a href="#">CAMEL-9707</a>	Add ListDataSet and FileDataSet
<a href="#">CAMEL-9719</a>	Spring Boot Starter
<a href="#">CAMEL-9737</a>	Create camel component for ServiceNow
<a href="#">CAMEL-9916</a>	SJMS component is not currently nodev/XML route compatible
<a href="#">CAMEL-9943</a>	Expose mail session as a URI option for camel-mail endpoints
<a href="#">CAMEL-1009</a>	create a 'mvn guice:run' plugin so we can run Guice based Camel applications easily in maven
<a href="#">CAMEL-1012</a>	redeliveryPolicyType should use attributes for simple values
<a href="#">CAMEL-1014</a>	ExpressionType is missing in Spring DSL
<a href="#">CAMEL-1017</a>	we have two loadbalancetype

Enhancement	Description
<a href="#">CAMEL-8906</a>	Application hangs when Spring Boot Actuator shutdown hook is used
<a href="#">CAMEL-1008</a>	remove more context-free DSL methods
<a href="#">CAMEL-4074</a>	Remove machine specific testcase setups from CXF test
<a href="#">CAMEL-5319</a>	openjpa profile doesn't work in camel-bam
<a href="#">CAMEL-6976</a>	camel-itest-cdi - Fails due recent changes in camel-cdi etc
<a href="#">CAMEL-7263</a>	Remove camel:dot
<a href="#">CAMEL-7634</a>	camel-facebook - Upgrade facebook4j to 2.x
<a href="#">CAMEL-8198</a>	Upgrade to JAXB 2.2.11
<a href="#">CAMEL-8454</a>	Correct a comment in files generated by camel-api-component-maven-plugin
<a href="#">CAMEL-8533</a>	camel-ognl exposes servicemix ognl bundle
<a href="#">CAMEL-8548</a>	upgrade commons-codec version to 1.10
<a href="#">CAMEL-8577</a>	BOM does not publish scriptengine dependencies
<a href="#">CAMEL-8591</a>	Upgrade to restlet 2.3.x
<a href="#">CAMEL-8614</a>	camel-linkedin and camel-olingo2 should use same Maven coord as others
<a href="#">CAMEL-8627</a>	Update Infinispan version from 6.0.2.Final to 7.1.1.Final
<a href="#">CAMEL-8629</a>	Update AWS SDK from version 1.9.17 to version 1.9.30
<a href="#">CAMEL-8637</a>	Upgrade Jetty version to 9.x in Camel-CometD
<a href="#">CAMEL-8644</a>	Update Google Gson version from 2.3 to 2.3.1
<a href="#">CAMEL-8648</a>	Update Docker-java version from 0.10.5 to 1.2.0
<a href="#">CAMEL-8650</a>	camel-docker - Add to karaf features
<a href="#">CAMEL-8651</a>	Update Ehcache from version 2.9.1 to 2.10.0
<a href="#">CAMEL-8652</a>	Update MongoDB Java Driver to 2.13.1 and Embed-Mongo to 1.47.2
<a href="#">CAMEL-8655</a>	Create Spring Boot examples and archetypes

Enhancement	Description
<a href="#">CAMEL-8658</a>	Replace SMX bundles of commons-logging with Apache versions
<a href="#">CAMEL-8659</a>	Update commons-lang to 2.6 (xmljason)
<a href="#">CAMEL-8661</a>	Use managed version of jackrabbit in hdfs and hbase features
<a href="#">CAMEL-8662</a>	Use managed version of avro in hdfs2 feature
<a href="#">CAMEL-8664</a>	Update MongoDB Java Driver from 2.13.1 to 3.0.0
<a href="#">CAMEL-8671</a>	Update XStream from version 1.4.7 to version 1.4.8
<a href="#">CAMEL-8677</a>	Update iCal4j from version 1.5.0.2 to version 1.6.0
<a href="#">CAMEL-8679</a>	Update Openshift Java Client Version from 2.5.0.Final to 2.7.0.Final
<a href="#">CAMEL-8697</a>	Update olingo-odata2-api from version 2.0.0 to version 2.0.3
<a href="#">CAMEL-8741</a>	Upgrade jsch
<a href="#">CAMEL-8759</a>	Try enabling google error prone source code detector
<a href="#">CAMEL-8760</a>	Upgrade Netty 3
<a href="#">CAMEL-8772</a>	camel-salesforce - Add documentation to its endpoint options
<a href="#">CAMEL-8802</a>	Upgrade to CXF 3.0.5
<a href="#">CAMEL-8809</a>	Upgrade AWS SDK bundle to version 1.10.2
<a href="#">CAMEL-8839</a>	Camel-Hazelcast: Add clear operation to List
<a href="#">CAMEL-8840</a>	Camel-AWS EC2: Add Security Groups support when creating and running instances
<a href="#">CAMEL-8867</a>	Upgrade GAE bundle version to 1.9.23
<a href="#">CAMEL-8928</a>	spring-security not part of the camel BOM
<a href="#">CAMEL-8959</a>	Remove old code from camel-cxf no longer needed due the CXF 3.0+ upgrade
<a href="#">CAMEL-8982</a>	Upgrade Freemarker to version 2.3.23
<a href="#">CAMEL-9021</a>	depends on non-free JAR
<a href="#">CAMEL-9028</a>	BOM does not export scala-library

Enhancement	Description
<a href="#">CAMEL-9038</a>	Make the existing tests of <code>camel-olingo2</code> automatically executable
<a href="#">CAMEL-9051</a>	Upgrade <code>ServiceMix-Specs</code> to 2.4.0
<a href="#">CAMEL-9077</a>	<code>camel-bindy</code> - Wonder if it outputs numbers using thousand separators
<a href="#">CAMEL-9080</a>	Update to <code>elasticsearch</code> 1.7.1
<a href="#">CAMEL-9082</a>	Upgrade <code>ServiceMix Specs</code> to 2.5.0
<a href="#">CAMEL-9113</a>	Upgrade <code>Infinispan</code> to 8.x
<a href="#">CAMEL-9114</a>	Upgrade <code>Jgroups</code> to version 3.6.7.Final
<a href="#">CAMEL-9120</a>	Add <code>Camel-Undertow</code> to Camel features
<a href="#">CAMEL-9132</a>	Upgrade <code>Kafka</code> to 0.8.2.2
<a href="#">CAMEL-9209</a>	<code>camel-jbpm</code> - use logging jar from maven central
<a href="#">CAMEL-9228</a>	Update to <code>undertow-1.3.0</code>
<a href="#">CAMEL-9242</a>	Upgrade <code>slf4j-api</code> to 1.7
<a href="#">CAMEL-9265</a>	Use <code>servicemix-specs</code> version of <code>jsr311-api</code>
<a href="#">CAMEL-9300</a>	<code>DeltaSpike</code> container control dependency in Camel CDI should be optional
<a href="#">CAMEL-9302</a>	Add <code>camel-jolt</code> to features
<a href="#">CAMEL-9307</a>	Remove unnecessary call to <code>setCamelContext</code> when adding a component by name
<a href="#">CAMEL-9334</a>	Upgrade to <code>spring 4.2x</code> .
<a href="#">CAMEL-9337</a>	Add <code>readme.txt</code> to all examples
<a href="#">CAMEL-9338</a>	Upgrade <code>camel-spring-integration</code>
<a href="#">CAMEL-9360</a>	Upgrade to <code>elasticsearch 2.x</code>
<a href="#">CAMEL-9361</a>	Upgrade <code>Kafka</code> to 0.9.0
<a href="#">CAMEL-9402</a>	Upgrade <code>Spring Dependency</code> to 4.1.9.RELEASE or later
<a href="#">CAMEL-9403</a>	<code>camel-examples</code> should not be in BOM

Enhancement	Description
<a href="#">CAMEL-9404</a>	Create .MD Readme for top folder
<a href="#">CAMEL-9412</a>	Correct camel-example-swagger-cdi documentation
<a href="#">CAMEL-9413</a>	camel-examples - update readme about correct version
<a href="#">CAMEL-9414</a>	Update quickfixj to v1.6.1
<a href="#">CAMEL-9420</a>	camel-paho : provide dynamic qos and retained option
<a href="#">CAMEL-9429</a>	Upgrade to ActiveMQ 5.13.1
<a href="#">CAMEL-9433</a>	Update to javax-mail 1.5.5
<a href="#">CAMEL-9458</a>	Cannot install camel-ignite in karaf
<a href="#">CAMEL-9464</a>	Camel-chunk: use Chunk-templates bundle in OSGi feature instead of wrapping the jar
<a href="#">CAMEL-9467</a>	Camel-Kafka: Upgrade to kafka 0.9 and use the Java client instead of Scala
<a href="#">CAMEL-9494</a>	Camel-Facebook: Use the OSGi bundle instead of wrapping the jar
<a href="#">CAMEL-9513</a>	Upgrade the Servlet API to 3.1
<a href="#">CAMEL-9514</a>	camel-netty4 maximumPoolSize option is ignored
<a href="#">CAMEL-9520</a>	DdbStreamConsumer should inherit ?pollStrategy from DdbStreamEndpoint
<a href="#">CAMEL-9536</a>	org.codehaus.mojo:taglist-maven-plugin:maven-plugin:2.10 does not exist
<a href="#">CAMEL-9556</a>	Main - We should @deprecate enableHangupSupport
<a href="#">CAMEL-9573</a>	Multicast and RecipientList - ShareUnitOfWork should rework a bit
<a href="#">CAMEL-9618</a>	File endpoint - Move some options from generic to file as they are file specific
<a href="#">CAMEL-9646</a>	Upgrade Xalan bundle to 2.7.2_3
<a href="#">CAMEL-9662</a>	Expose cxf-rt-transport-http through BOM
<a href="#">CAMEL-9691</a>	camel-infinispan : cleanup uri options
<a href="#">CAMEL-9709</a>	Define jackson version in dependency management
<a href="#">CAMEL-9712</a>	Define lucene version in dependency management

Enhancement	Description
<a href="#">CAMEL-9717</a>	Define kafka version in dependency management
<a href="#">CAMEL-9722</a>	Explicitly define cxf transitive dependencies
<a href="#">CAMEL-9723</a>	Move spring-boot-starter-sample to examples so we can collapse the camel-spring-boot-starter module
<a href="#">CAMEL-9725</a>	camel-example-osgi-cdi - Some maven warns
<a href="#">CAMEL-9757</a>	camel-gae - Deprecate
<a href="#">CAMEL-9760</a>	Google drive component syntax inconsistency
<a href="#">CAMEL-9781</a>	Installing camel in Karaf 3.0.x
<a href="#">CAMEL-9806</a>	Add camel-IronMQ Karaf feature
<a href="#">CAMEL-9825</a>	Exclude CDI generated proxies from context tracker
<a href="#">CAMEL-9902</a>	Remove ServiceMix scripting-api from Karaf features
<a href="#">CAMEL-9913</a>	Upgrading Beanshell for CVE-2016-2510
<a href="#">CAMEL-9976</a>	camel:rest-show command requires only context name as argument and not route Id
<a href="#">ENTESB-5384</a>	Camel-JacksonXML: Some tests fails
<a href="#">ENTESB-5444</a>	Switch Camel-Dropbox to servlet-api 3.1.0
<a href="#">ENTESB-5636</a>	3rd party alignments - built from source strict alignments
<a href="#">CAMEL-8699</a>	Camel-example-cxf: Remove ref from LoadBalance tag
<a href="#">CAMEL-8869</a>	Switching httpClient from 4.3.x to 4.4.x break tests
<a href="#">CAMEL-8886</a>	camel-cxf - 2 tests fails
<a href="#">CAMEL-8919</a>	NettyUDPMulticastAsyncTest failing on Windows
<a href="#">CAMEL-8985</a>	camel-jetty - A test fails
<a href="#">CAMEL-9072</a>	camel-test-blueprint - Custom converter test fails
<a href="#">CAMEL-9211</a>	Increase the number of Karaf integration tests

Enhancement	Description
<a href="#">CAMEL-9229</a>	Wrong folder name for jacksonxml test resources
<a href="#">CAMEL-9407</a>	Camel-Elasticsearch: Re-enable cluster tests
<a href="#">CAMEL-9490</a>	FacebookMethodsTypeHelperTest.testGetType fails with IllegalArgumentException Exception
<a href="#">CAMEL-9493</a>	camel-mlp - Use dynamic assigned port number for testing
<a href="#">CAMEL-9615</a>	camel-itest-karaf - Some failed tests
<a href="#">CAMEL-9708</a>	Multiple tests not using equality predicate correctly
<a href="#">CAMEL-9827</a>	MongoDB - The unit tests have some issues
<a href="#">CAMEL-8501</a>	BOM does not publish restlet dependencies
<a href="#">CAMEL-9835</a>	Enable kafka consumer to subscribe to multiple topics
<a href="#">ENTESB-4479</a>	Update Jenkins jobs to use Flaky Test Plugin and Surefire rerun failing tests option

## 6.5. WEB SERVICES

Table 6.5, “Web Services Enhancements in 6.3.0” lists the enhancements in version 6.3.0.

**Table 6.5. Web Services Enhancements in 6.3.0**

Enhancement	Description
<a href="#">ENTESB-4135</a>	Update to the JMS 2.0 API
<a href="#">ENTESB-4597</a>	Review examples shipped in extras directory for camel & cxf
<a href="#">ENTESB-5239</a>	Upgrade Xalan bundle to 2.7.2_3
<a href="#">CXF-3344</a>	Runtime Exceptions should not be wrapped. Exceptions should not be logged and rethrown in AbstractFaultChainInitiatorObserver
<a href="#">CXF-4242</a>	Add exception name to faultstring/detail/stackTrace
<a href="#">CXF-5193</a>	Support fixed data type
<a href="#">CXF-5311</a>	Support OAuth2 JWT token
<a href="#">CXF-5439</a>	Introduce annotations for marking CXF interceptors and features to enable the auto-discovery



Enhancement	Description
<a href="#">CXF-5582</a>	Enhance CXF LogBrowser to receive Log events in real time via WebSocket
<a href="#">CXF-5606</a>	WADL to Java code generator should translate wadl:doc into Java documentation
<a href="#">CXF-5669</a>	Create JAX-RS service for managing 3rd party client registrations
<a href="#">CXF-5674</a>	CXF Support in "Audience Restriction" of SAML 2 (SOAP)
<a href="#">CXF-5854</a>	Add property "refreshTemplates" to XSLTJaxbProvider
<a href="#">CXF-5891</a>	ReadHeadersInterceptor performances improvement
<a href="#">CXF-5902</a>	Provide utility support for Jwe composite AesCbcHmac content encryption algorithm
<a href="#">CXF-5908</a>	Making Claims clonable
<a href="#">CXF-5914</a>	Extend AbstractPolicyProvider.getEffectivePolicy() with optional message parameter
<a href="#">CXF-5922</a>	Secure CXF WSDL with standard HTTP Authentication
<a href="#">CXF-5925</a>	JEXL Support for STS Claim Mappings
<a href="#">CXF-5926</a>	Extend SSL KeyManagers with password callback handler
<a href="#">CXF-5927</a>	Claim Mapping Utils
<a href="#">CXF-5929</a>	WADL to Java code generator should support mappings to parameterized types
<a href="#">CXF-5932</a>	Monitor contention at org.apache.cxf.jaxrs.utils.JAXRSUtils.processParameters(OperationResourceInfo, MultivaluedMap, Message)
<a href="#">CXF-5934</a>	Make WadlGenerator more easily extensible
<a href="#">CXF-5937</a>	CXF Servlets should optionally react to X-Forwarded headers
<a href="#">CXF-5944</a>	Get Jwe and Jws code to the stage where it can be documented
<a href="#">CXF-5948</a>	wadl2java -inheritResourceParams: put parent param first
<a href="#">CXF-5954</a>	Jwe and Jws JAX-RS filters should be able to use JWK stores
<a href="#">CXF-5956</a>	wadl2java: support 'repeating' attribute for response param
<a href="#">CXF-5959</a>	support to specify instance.id of ManagedBus

Enhancement	Description
<a href="#">CXF-5960</a>	Provide a default encrypting OAuth2 provider
<a href="#">CXF-5962</a>	Make LogBrowser sample also run in OSGi
<a href="#">CXF-5975</a>	SecurityToken::isExpired: add clock skew option
<a href="#">CXF-5979</a>	Allow some headers to be returned in WebSocket's streaming responses
<a href="#">CXF-5984</a>	Provide a simple way start a decoupled servlet endpoint
<a href="#">CXF-5986</a>	wadl2java maven plugin: add support for filename wildcards
<a href="#">CXF-5990</a>	Integration custom parser
<a href="#">CXF-6006</a>	StreamingOutput in JAXRS client proxies
<a href="#">CXF-6009</a>	Monitor contention at org.apache.cxf.transport.http.Headers
<a href="#">CXF-6019</a>	WSDLGetUtils: original exception isn't logged by exceptions in WSDL parser
<a href="#">CXF-6042</a>	Support certificate constraints in JAX-RS XML Signature
<a href="#">CXF-6043</a>	Multi User BaseDN Support for LdapClaimsHandler
<a href="#">CXF-6046</a>	Enhance SwaggerFeature to support JAX-RS annotations
<a href="#">CXF-6047</a>	Extend the STSTokenValidator to be able to call the issue binding
<a href="#">CXF-6048</a>	Support roles in the AuthPolicyValidatingInterceptor
<a href="#">CXF-6051</a>	Support sp13:Nonce + sp13:Created in the UsernameTokenInterceptor
<a href="#">CXF-6054</a>	Add a property to allow using unsigned saml tokens as principals
<a href="#">CXF-6064</a>	Improve WADL Generator Extensibility for ID generation
<a href="#">CXF-6074</a>	Add configured XmlAdapters
<a href="#">CXF-6079</a>	static-resource-list cache control
<a href="#">CXF-6081</a>	Make it easier to control the way AccessTokenService checks the passwords
<a href="#">CXF-6084</a>	Critical Header for JWS
<a href="#">CXF-6087</a>	Add a way to exclude (multiple) SSL/TLS protocols in the HTTPJ namespace

Enhancement	Description
<a href="#">CXF-6098</a>	Use RSA-SHA256 by default when issuing tokens in the STS
<a href="#">CXF-6107</a>	Supporting (Un)marshaller aware XML Readers and Writers in jaxb data binding
<a href="#">CXF-6110</a>	AbstractSTSCClient MEX: download XML schema from Location
<a href="#">CXF-6120</a>	Optionally disable the creation of the JMS Security Context for incoming messages
<a href="#">CXF-6124</a>	Switch http transport to use HttpService for OSGi
<a href="#">CXF-6131</a>	JAX-RS resource spring auto-discovery doesn't work in OSGi
<a href="#">CXF-6133</a>	Introduce Jwe and Jws exception classes to make it easier to provide dedicated JAX-RS exception mappers
<a href="#">CXF-6135</a>	CXF should be installable in karaf 4 minimal
<a href="#">CXF-6141</a>	KeyType information in STS Audit Log
<a href="#">CXF-6142</a>	OAuth2 AccessTokenValidator needs to accept more parameters
<a href="#">CXF-6148</a>	Adding support for xsd:choice in Javascript generator
<a href="#">CXF-6150</a>	Override XSLTJaxbProvider xsl path at runtime
<a href="#">CXF-6157</a>	Support storing of OAuth2 redirection state in a session token
<a href="#">CXF-6162</a>	Adding support for xsd:group ref in Javascript generator
<a href="#">CXF-6164</a>	OAuthClientUtils Consumer class needs to be moved to a standalone class
<a href="#">CXF-6167</a>	Add an ability to specify SOAP error parser for Javascript client
<a href="#">CXF-6168</a>	Avoid ServletController synchronizing on the destination by default
<a href="#">CXF-6173</a>	Unable to configure CXF StAX properties on a per-endpoint/client basis if a JAX-WS handler is configured
<a href="#">CXF-6175</a>	STS: warning message is not informative, in case if service doesn't match
<a href="#">CXF-6191</a>	Avoid Spring usage by configuration in ClassHelper
<a href="#">CXF-6199</a>	Allow scalability for slow services on jms
<a href="#">CXF-6200</a>	CXF JAX-RS Model extension should be usable without custom service classes

Enhancement	Description
<a href="#">CXF-6206</a>	JAASLoginInterceptor: Return proper unauthorized response when JAAS login with basic auth fails
<a href="#">CXF-6220</a>	JWA algorithm representation code needs to be cleaned up
<a href="#">CXF-6223</a>	Support message property for encryption certificate
<a href="#">CXF-6227</a>	JAX-WS client performance improvements
<a href="#">CXF-6232</a>	Refactor CXF's Atmosphere based WebSocket transport for more flexible and extensible handling
<a href="#">CXF-6238</a>	Java2WADL : Generating response status attribute
<a href="#">CXF-6244</a>	ContentDisposition should support UTF-8 filenames
<a href="#">CXF-6251</a>	Allow org.apache.cxf.logging.enabled to have a value of "pretty" for pretty printing
<a href="#">CXF-6255</a>	WSS4JInInterceptor: "Security header, but it's a fault"
<a href="#">CXF-6267</a>	Refactor issuing and renewing SAML token functionality into utility class
<a href="#">CXF-6268</a>	Make cxf-codegen-plugin toolchains aware during maven build
<a href="#">CXF-6277</a>	Enhance the X509TokenValidator to also validate X509Data DOM Elements
<a href="#">CXF-6282</a>	Add ability to have proxies implement AutoCloseable
<a href="#">CXF-6283</a>	Support binary attributes in the LDAPClaimsHandler
<a href="#">CXF-6286</a>	Make request logging more Modular
<a href="#">CXF-6308</a>	Make WebSocket transport's embedded jetty mode to use atmosphere if available
<a href="#">CXF-6329</a>	Allow multiple atmosphere interceptors to be configured for the websocket transport
<a href="#">CXF-6333</a>	Support Inclusive C14N via security policy
<a href="#">CXF-6334</a>	Add the ability to plug in custom security policy validators for various assertions
<a href="#">CXF-6335</a>	Explicitly set HTTPConduit on client inbound message
<a href="#">CXF-6337</a>	Support the redirection directly via the injected JAX-RS ServletContext context
<a href="#">CXF-6341</a>	Add atmosphere when installing feature cxf-transport-websocket-server

Enhancement	Description
<a href="#">CXF-6344</a>	Support system file location for JexlClaimMapper scripts
<a href="#">CXF-6345</a>	Support Logging in JexlClaimMapper scripts
<a href="#">CXF-6353</a>	provide a not typed way to configure cxf jaxrs clients
<a href="#">CXF-6363</a>	Introduce JwsHeaders
<a href="#">CXF-6372</a>	Generating distinct claim values for multi-value LDAP attributes
<a href="#">CXF-6381</a>	Upgrade to pax exam 4.5.0 and allow to test with karaf 4
<a href="#">CXF-6394</a>	Add an option to add the namespace map of the container element in the message
<a href="#">CXF-6399</a>	Add attributes transform handling in transform feature
<a href="#">CXF-6400</a>	Make ws-security.callback-handler optional for generating a WS-Security signature
<a href="#">CXF-6401</a>	Change the order that the set of security results are searched to create a security context
<a href="#">CXF-6404</a>	HTTPConduit performance improvements
<a href="#">CXF-6407</a>	Use default JVM cipher suites if no filters are specified
<a href="#">CXF-6411</a>	Improve NoOsgi Blueprint Integration
<a href="#">CXF-6414</a>	Add a way of including TLS protocols in the Jetty server
<a href="#">CXF-6417</a>	Investigate how the logging of binary attachment parts can be disabled
<a href="#">CXF-6419</a>	Update JMSEndpoint properties using EndpointInfo
<a href="#">CXF-6420</a>	Maven cxf-java2ws-plugin copies to the maven repository only the last wsdl of multiple services/executions - overwrites the others
<a href="#">CXF-6421</a>	Slim Exchange map down
<a href="#">CXF-6425</a>	Check for external transactions in PollingMessageListenerContainer
<a href="#">CXF-6438</a>	Optimize ExtensionInvocationHandler
<a href="#">CXF-6440</a>	New metrics component doesn't record metrics for Rest resources
<a href="#">CXF-6470</a>	Make SimplePrinciple Serializable

Enhancement	Description
<a href="#">CXF-6476</a>	Introduce Swagger v1.5 feature (v2.0 specification)
<a href="#">CXF-6478</a>	Introduce the option to disable using query parameters to populate the form maps
<a href="#">CXF-6482</a>	Old javax.servlet.http version in oauth2 bundle
<a href="#">CXF-6483</a>	Sort ConfigurerImpl Matchers by a number of literal characters
<a href="#">CXF-6498</a>	Update JAX-RS 2.0 ClientImpl to support CXF features
<a href="#">CXF-6499</a>	WADL Generator should optionally ignore path params for the same path method evaluation
<a href="#">CXF-6508</a>	JAASLoginInterceptor should allow named Principals
<a href="#">CXF-6509</a>	CXF is mysterious about invalid JAX-RS bean classes
<a href="#">CXF-6521</a>	RS SAML Out Interceptors should be able to reuse tokens set by STSTokenOutInterceptor
<a href="#">CXF-6525</a>	Support for <a href="http://docs.oasis-open.org/wss/oasis-wss-SwAPProfile-1.1#Attachment-Content-Only">http://docs.oasis-open.org/wss/oasis-wss-SwAPProfile-1.1#Attachment-Content-Only</a> when using WSS-Policy
<a href="#">CXF-6557</a>	Use the default swagger-ui html page in swagger2 sample
<a href="#">CXF-6562</a>	ResourceOwnerGrantHandler: doesn't have getter for loginHandler
<a href="#">CXF-6565</a>	DOM4JProvider should support suppressing XML declarations
<a href="#">CXF-6566</a>	Update WADLGenerator to avoid converting existing resources to DOM
<a href="#">CXF-6568</a>	Default WebApplicationExceptionHandler should be optionally made less specific
<a href="#">CXF-6571</a>	Adding an option in Swagger2Feature to scan non-swagger annotated resources
<a href="#">CXF-6572</a>	OAuth2 Hawk Scheme requests
<a href="#">CXF-6586</a>	Missing some bean properties in Swagger2Feature
<a href="#">CXF-6610</a>	Throttling Interceptors can not abort but only delay overflowing requests
<a href="#">CXF-6623</a>	Add support for nested @BeanParam's
<a href="#">CXF-6625</a>	Wadl-to-Java should be able to generate custom method annotation classes
<a href="#">CXF-6633</a>	Enhance Swagger feature with optional dynamic basePath, tags and Javadocs handling

Enhancement	Description
CXF-6634	Move DocumentationProvider interface out of .model.wadl. package
CXF-6643	Upgrade Apache HTrace to 4.0
CXF-6644	Move Basic JSON parser code into a dedicated module
CXF-6645	Introduce a 'jose.debug' property
CXF-6658	Make ServletContextResourceResolver optionally ignored
CXF-6661	WADLGenerator should optionally include xsi schemaLocation
CXF-6663	Scope based authorization support for OAuth2 RS endpoints
CXF-6686	Provide AccessTokenValidator RFC7662
CXF-6690	WADL2Java should try to split complex XJC parameters
CXF-6695	SwaggerFeature: add support for @MatrixParam and @BeanParam
CXF-6712	[cxf-java2wadl-plugin] Add parameter encoding to goal parsejavadoc
CXF-6716	java2ws should log a warning message for a Holder parameter annoated with WebParam.Mode.IN property
CXF-6722	OAuthDataProvider needs to have methods for listing client tokens
CXF-6732	Allow SOAPAction to be overwritten via RequestContext property
CXF-6736	Support login_hint at OidcClientCodeRequestFilter
CXF-6738	Reduce contention on org.apache.cxf.binding.soap.SoapTransportFactory\$SoapEndpointInfo
CXF-6739	Reduce memory pressure in org.apache.cxf.attachment.AttachmentDeserializer
CXF-6766	Option to disable XMLConstants.FEATURE_SECURE_PROCESSING in XSLTJaxbProvider
CXF-6767	OSGI ServletImporter should be able to accept extra properties
CXF-6771	JAX-RS ContextProvider should be able to support Servlet contexts
CXF-6774	Allow ClientImpl to be thread-safe
CXF-6779	Swagger Feature should become discoverable

Enhancement	Description
<a href="#">CXF-6786</a>	avoid Error log from NamePasswordCallbackHandler
<a href="#">CXF-6789</a>	SwaggerFeature default resource package calculation should try to support multiple resource classes better
<a href="#">CXF-6802</a>	Decode ContentDisposition filename encoded with codepoints only
<a href="#">CXF-6808</a>	Update JWS/JWE utils to load named properties
<a href="#">CXF-6826</a>	Cache MediaTypeHeaderProvider.valueOf(String mType) results
<a href="#">CXF-6827</a>	OAuthRequestFilter should be able to cache token validation results
<a href="#">CXF-6831</a>	should be able to configure the certStore key type
<a href="#">CXF-6837</a>	Add cache for MessageBodyReader/Writer
<a href="#">CXF-6840</a>	xsd:import without schemaLocation does not get resolved in SchemaHandler
<a href="#">CXF-6861</a>	Introduce a typed JAXBElement provider
<a href="#">CXF-6903</a>	add a NameDigestPasswordCallbackHandler for JAASLoginInterceptor
<a href="#">CXF-6910</a>	don't need setSocketTimeout when create ahc RequestConfig
<a href="#">CXF-5118</a>	Create CXF interceptor which will use HTTPS client certificates to create JAAS SecurityContext
<a href="#">CXF-5607</a>	Support for CXF OAuth2 endpoints participating in OpenId-Connect flows
<a href="#">CXF-5909</a>	TLS Authenticated Handshake and Authentication/Authorization with JAAS by TLS Certificate
<a href="#">CXF-5923</a>	Create sample to demonstrate usage of search extension with Lucene and Tika
<a href="#">CXF-5996</a>	respect client cache headers
<a href="#">CXF-6028</a>	Improved metrics
<a href="#">CXF-6053</a>	Support JWS JSON Serialization
<a href="#">CXF-6085</a>	JWE JSON Serialization
<a href="#">CXF-6132</a>	Provide JAX-RS ServletContainerInitializer



Enhancement	Description
<a href="#">CXF-6215</a>	Introduce JAX-RS DefaultMethod extension
<a href="#">CXF-6242</a>	Ability to configure the format of the marshalling / unmarshalling exceptions that are thrown by JAXB when schema validation is enabled.
<a href="#">CXF-6264</a>	Provide Swagger to CXF UserResource converter
<a href="#">CXF-6360</a>	Integration with Apache HTrace
<a href="#">CXF-6477</a>	Add "publish" attribute to jaxrs blueprint bean
<a href="#">CXF-6735</a>	Enable/Disable SecurityTokenReference with configuration for CXF/.NET interoperability
<a href="#">CXF-6784</a>	WS-Notification subscription should support renew
<a href="#">FEDIZ-134</a>	Create light-weight OIDC IDP
<a href="#">CXF-5855</a>	Introduce support for Server Sent Events
<a href="#">CXF-4780</a>	Enhance JAASAuthenticationFilter to support FORM login
<a href="#">CXF-4913</a>	Add 'validate' option to WADL to Java generator
<a href="#">CXF-5886</a>	Provide a default Ehcache based OAuth2 provider
<a href="#">CXF-5901</a>	Investigate how WebSocket Transport can support CORS
<a href="#">CXF-5941</a>	Update JAX-RS version to 2.0.1
<a href="#">CXF-5993</a>	Update to Jettison 1.3.6
<a href="#">CXF-6052</a>	Upgrade the Karaf version to support JDK8
<a href="#">CXF-6121</a>	Update to Jettison 1.3.7
<a href="#">CXF-6165</a>	Create OIDC OAuth2 demo
<a href="#">CXF-6253</a>	Upgrade async-http-client to 1.9.8
<a href="#">CXF-6278</a>	Introduce MessageDigestInputStream utility class
<a href="#">CXF-6279</a>	Introduce X509 Certificate Path validation utility code
<a href="#">CXF-6280</a>	Consider providing a DirectAccessToken JAXRS service

Enhancement	Description
<a href="#">CXF-6391</a>	Create JAX-WS and JAX-RS Spring Boot demo
<a href="#">CXF-6397</a>	Upgrade atmosphere to 2.3.0
<a href="#">CXF-6449</a>	Upgrade Atmosphere to 2.3.2
<a href="#">CXF-6487</a>	OIDC RP code needs to pass a verification test
<a href="#">CXF-6490</a>	Create OIDC Authentication Only demo
<a href="#">CXF-6503</a>	Investigate if WADL JavaDocProvider can report JavaDocs of inherited methods
<a href="#">CXF-6530</a>	Add a webapp version of Swagger2Feature sample using spring
<a href="#">CXF-6541</a>	Add an OSGi version of Swagger2Feature sample using blueprint
<a href="#">CXF-6725</a>	Remove deprecated JOSE configuration properties
<a href="#">CXF-6726</a>	Complete JOSE documentation
<a href="#">CXF-6815</a>	Upgrade Reflections bundle to version 0.9.10_3
<a href="#">CXF-6818</a>	Upgrade to latest Jetty8 8.1.19.v20160209
<a href="#">CXF-6853</a>	Support encoded value in @ApplicationPath
<a href="#">ENTESB-4708</a>	[6.3] Summary of problems with version alignment
<a href="#">ENTESB-5636</a>	3rd party alignments - built from source strict alignments
<a href="#">CXF-6070</a>	NPE while calling a webservice using a clientproxy
<a href="#">CXF-6129</a>	CXF STS basic systests failure
<a href="#">CXF-6130</a>	all tests in org.apache.cxf.osgi.itests failed
<a href="#">CXF-6202</a>	Create JWS JoseCookBook tests
<a href="#">CXF-6318</a>	Execute JAXRS WebSocket systests with and without atmosphere
<a href="#">CXF-6346</a>	Unit test failures with JDK8
<a href="#">CXF-6068</a>	Make org.apache.cxf.binding.soap.interceptor.ReadHeadersInterceptor compatible with WebSphere 7

Enhancement	Description
<a href="#">CXF-6704</a>	Upgrade to httpclient 4.5.x
<a href="#">CXF-6790</a>	change accessibility of WadlGenerator.getBaseUri(...) to protected

## 6.6. FUSE ON JBOSS EAP

Table 6.6, “Fuse on EAP Enhancements in 6.3.0” lists the enhancements in version 6.3.0.

**Table 6.6. Fuse on EAP Enhancements in 6.3.0**

Enhancement	Description
<a href="#">ENTESB-4479</a>	Update Jenkins jobs to use Flaky Test Plugin and Surefire rerun failing tests option
<a href="#">ENTESB-4685</a>	Package javadocs with distro
<a href="#">ENTESB-5072</a>	Update to fuse-patch-2.1.0

## 6.7. CONTAINER - 6.3.0

Table 6.7, “Container Enhancements in 6.3.0” lists the enhancements in version 6.3.0.

**Table 6.7. Container Enhancements in 6.3.0**

Enhancement	Description
<a href="#">KARAF-4343</a>	Upgrade to Xalan 2.7.2_3
<a href="#">KARAF-4449</a>	Upgrade to Aries proxy-impl 1.0.5
<a href="#">ENTESB-4135</a>	Update to the JMS 2.0 API
<a href="#">ENTESB-4479</a>	Update Jenkins jobs to use Flaky Test Plugin and Surefire rerun failing tests option
<a href="#">ENTESB-4674</a>	jmxRole configuration not inherited from parent when creating child container
<a href="#">ENTESB-4787</a>	Fabric child container's initial properties should default to those of its parent
<a href="#">ENTESB-4839</a>	System scripts: provide Systemd templates to manage Karaf child instances
<a href="#">ENTESB-4865</a>	Improve support for Solaris 10 init scripts
<a href="#">ENTESB-4989</a>	Improve fuse init scripts
<a href="#">ENTESB-5215</a>	Add "-Xshareclasses:none" to DEFAULT_JAVA_OPTS for IBM Java

Enhancement	Description
<a href="#">ENTESB-5553</a>	Use Red Hat build of winsw
<a href="#">ENTESB-5632</a>	Download brew tanuki libs rather than checking them into source
<a href="#">ENTESB-4386</a>	Use system specific init scripts
<a href="#">ENTESB-4440</a>	upgrade to jetty 9
<a href="#">ENTESB-5236</a>	Need DigestPasswordLoginModule so PasswordDigest can work with Karaf JAAS realm
<a href="#">ARIES-1395</a>	Add a structure-only option to Blueprint xml-validation feature
<a href="#">KARAF-2921</a>	bin/karaf selecting the wrong Java VM on a computer with Java 8 installed
<a href="#">KARAF-3016</a>	Be able to redirect child instance std out in a file
<a href="#">KARAF-4243</a>	Add apache ignite to feature repo:add shorthand
<a href="#">KARAF-4351</a>	[RBAC] Optimize access to JMXSecurityMBean.canInvoke(Map)
<a href="#">KARAF-4520</a>	Add DigestPasswordLoginModule so PasswordDigest can work with Karaf JAAS realm
<a href="#">KARAF-4523</a>	JMXSecurityMBean bulk canInvoke should be robust even if bulkQuery contains duplicate operations
<a href="#">KARAF-4157</a>	Provide system script to start Karaf without service wrapper
<a href="#">ENTESB-4953</a>	incorrect version imports in features:install camel-spring-security
<a href="#">ENTESB-5243</a>	Upgrade pax-url to version >= 2.4.7
<a href="#">ENTESB-1335</a>	Use Red Hat Tanuki build in Fuse 6.1
<a href="#">ENTESB-4708</a>	[6.3] Summary of problems with version alignment
<a href="#">ENTESB-5376</a>	Remove spring-dm support
<a href="#">ENTESB-5408</a>	Upgrade to Pax Logging 1.8.5
<a href="#">ENTESB-55</a>	Starting FuseESB on Windows shows karaf in the window title bar
<a href="#">ENTESB-5636</a>	3rd party alignments - built from source strict alignments
<a href="#">KARAF-4349</a>	Use the same approach of KARAF-4330 in karaf.bat script

Enhancement	Description
<a href="#">KARAF-4363</a>	ssh:sshd command shows default values twice

## 6.8. FUSE FABRIC - 6.3.0

Table 6.8, "Fabric Enhancements in 6.3.0" lists the enhancements in version 6.3.0.

Table 6.8. Fabric Enhancements in 6.3.0

Enhancement	Description
<a href="#">KARAF-4449</a>	Upgrade to Aries proxy-impl 1.0.5
<a href="#">ENTESB-2705</a>	Appending value to property in default profile breaks property file
<a href="#">ENTESB-3155</a>	mq-create : use default-version when no version is specified, instead of 1.0
<a href="#">ENTESB-4135</a>	Update to the JMS 2.0 API
<a href="#">ENTESB-4221</a>	Please tidy up jetty port references in our configuration files
<a href="#">ENTESB-4222</a>	Improve the recovery of fuse ensemble cluster
<a href="#">ENTESB-4581</a>	Fabric8 jvm options for nodes should be applied when node is started using bin/karaf
<a href="#">ENTESB-4583</a>	Need a way to change the user credentials for managing SSH containers
<a href="#">ENTESB-4598</a>	Need a way to set "autopurge.purgeInterval" of Zookeeper.
<a href="#">ENTESB-4600</a>	[patching] Add warning or error when applying patch for Fuse 6.1 on Fuse 6.2
<a href="#">ENTESB-4674</a>	jmxRole configuration not inherited from parent when creating child container
<a href="#">ENTESB-4684</a>	Request to provide additional status in the fabric:container-list command
<a href="#">ENTESB-4726</a>	Upgrade swagger to 1.5.4
<a href="#">ENTESB-4787</a>	Fabric child container's initial properties should default to those of its parent
<a href="#">ENTESB-4917</a>	Enhance Exception Reporting In FabricFeaturesServiceImpl
<a href="#">ENTESB-5041</a>	Add option to "fabric:requirements-export" command to indent requirements-export json output
<a href="#">ENTESB-5052</a>	Update the camel-cxf-code-first and camel-cxf-contract-first quickstarts so they don't use the same endpoints

Enhancement	Description
<a href="#">ENTESB-5182</a>	Please include org.springframework/spring-webmvc in Fuse BOM
<a href="#">ENTESB-5479</a>	Fabric should externalize jolokia-access.xml, or provide similar configuration facilities
<a href="#">ENTESB-5533</a>	unable to delete resource from fabric:profile-edit --delete
<a href="#">ENTESB-5537</a>	[patching] Make it easier to patch patching mechanism itself
<a href="#">ENTESB-5805</a>	beginner/camel-log-wiki example uses invalid timer value
<a href="#">ENTESB-4340</a>	Delete bin/deletefabric8 script
<a href="#">ENTESB-4386</a>	Use system specific init scripts
<a href="#">ENTESB-4440</a>	upgrade to jetty 9
<a href="#">ENTESB-4441</a>	upgrade to CXF 3.1
<a href="#">ENTESB-4852</a>	Support AMQ 7 clients and camel connector
<a href="#">ENTESB-4901</a>	Missing --manual-ip parameter for fabric:container-resolver-set manualip
<a href="#">ARIES-1395</a>	Add a structure-only option to Blueprint xml-validation feature
<a href="#">CAMEL-9039</a>	Feature camel-core contains bundles, which should be made optional for micro-services deployment
<a href="#">ENTESB-4806</a>	Race condition in Fabric environment deploying SAP Components to child container
<a href="#">ENTESB-5243</a>	Upgrade pax-url to version >= 2.4.7
<a href="#">ENTESB-4708</a>	[6.3] Summary of problems with version alignment
<a href="#">ENTESB-4857</a>	Disable geolP by default
<a href="#">ENTESB-5408</a>	Upgrade to Pax Logging 1.8.5
<a href="#">ENTESB-5636</a>	3rd party alignments - built from source strict alignments
<a href="#">ENTESB-5764</a>	[maven] Verify whether fabric-maven should serve SNAPSHOTs from defaultRepositories
<a href="#">ENTESB-5803</a>	[patching] split patch-core to impl and api bundles

## 6.9. MANAGEMENT CONSOLE - 6.3.0

Table 6.9, “Enhancements in 6.3.0” lists the enhancements in 6.3.0.

**Table 6.9. Enhancements in 6.3.0**

Enhancement	Description
<a href="#">ENTESB-4479</a>	Update Jenkins jobs to use Flaky Test Plugin and Surefire rerun failing tests option
<a href="#">ENTESB-4581</a>	Fabric8 jvm options for nodes should be applied when node is started using bin/karaf
<a href="#">ENTESB-4599</a>	Hawtio: Update Camel tab for new or removed camel contexts/routes [Fabric mode]
<a href="#">ENTESB-5479</a>	Fabric should externalize jolokia-access.xml, or provide similar configuration facilities
<a href="#">ENTESB-5791</a>	Jolokia - Allow to override all the defaults at startup time
<a href="#">ENTESB-4708</a>	[6.3] Summary of problems with version alignment
<a href="#">ENTESB-5004</a>	Update Fuse Jenkins to use Build Pipelines
<a href="#">ENTESB-5636</a>	3rd party alignments - built from source strict alignments

## 6.10. JON PLUG-INS

Table 6.10, “JON Plug-In Enhancements in 6.3.0” lists the enhancements in version 6.3.0.

**Table 6.10. JON Plug-In Enhancements in 6.3.0**

Enhancement	Description
<a href="#">FUSEJON-126</a>	AMQ Restart via JBoss ON fails sometimes

## CHAPTER 7. SUPPORTED CONFIGURATIONS

### 7.1. INFORMATION ON THE CUSTOMER PORTAL

For information about supported configurations, standards, and components in version 6.3, 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](#)