



# Red Hat JBoss Fuse 6.1

## Release Notes

What's new in Red Hat JBoss Fuse



# Red Hat JBoss Fuse 6.1 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 © 2013 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, JBoss, OpenShift, Fedora, the Infinity logo, and RHCE are trademarks of Red Hat, Inc., registered in the United States and other countries.

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

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

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

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

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

The OpenStack ® 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>
NEW FEATURES	3
TECHNOLOGY PREVIEW FEATURES	3
DEPRECATED FEATURES	4
<b>CHAPTER 2. KNOWN ISSUES</b> .....	<b>5</b>
<b>CHAPTER 3. RESOLVED ISSUES</b> .....	<b>8</b>
3.1. ESB	8
3.2. MESSAGING	24
3.3. ROUTING	44
3.4. WEB SERVICES	61
3.5. CONTAINER	84
3.6. FUSE FABRIC	85
<b>CHAPTER 4. ENHANCEMENTS</b> .....	<b>94</b>
4.1. ESB	94
4.2. MESSAGING	98
4.3. ROUTING	106
4.4. WEB SERVICES	134
4.5. CONTAINER	143
4.6. FUSE FABRIC	144
<b>CHAPTER 5. APACHE DEPENDENCIES</b> .....	<b>151</b>



# CHAPTER 1. WHAT'S NEW

## Abstract

This section describes the main features and changes in version 6.1.

## NEW FEATURES

The following list describes the main features in version 6.1:

- Full support for AMQP 1.0. Out-of-the-box wire-level compatibility across connections. See [Qpid JMS Client API](#).
- Broker configuration modification no longer requires restarting the services. See [Modifying a Running Standalone Broker's XML Configuration](#).
- Improved high availability (HA). Embedded message store for shared-nothing HA configuration.
- Certification of the JBoss A-MQ resource adapter with JBoss EAP 6. See [Red Hat JBoss A-MQ - Integrating with JBoss Enterprise Application Platform](#).
- Support for the MQTT 3.1.1 draft specification. See [Connection Reference - MQ Telemetry Transport\(MQTT\) Protocol](#) and [Camel Component Reference - MQTT](#).
- [Extensive connectors library](#). More than 200 out-of-the-box-connectors with Apache Camel and new [Salesforce connectors](#) and [SAP connectors](#).
- New [Fuse Management Console](#). Improved out-of-the-box management console based on the hawt.io Web console. You can now start, stop, measure and trace Camel routes on-premise or in the cloud.

## TECHNOLOGY PREVIEW FEATURES

The following features are provided as a technology preview and are not fully supported in version 6.1:

- Insight metrics for Kibana and Elasticsearch profiles.
- Process manager (for more details see [Fabric8 Process Containers](#)).
- Fabric partition (for more details see [Fabric8 Partitions](#)).
- [Fabric Gateway](#), providing a TCP and HTTP/S gateway for discovery, load balancing and failover of services running in a fabric.
- Replicated LevelDB persistence adapter, that synchronizes all slave LevelDB stores with the master LevelDB store. See [Using the Replicated LevelDB Persistence Adapter](#).
- Java driver for LevelDB store on non-Linux or OS-X operating systems.
- [JMS Qpid Client API](#)
- Hadoop integration. See [Camel Component Reference - HDFS](#).

- [Fabric8 Maven Plug-In](#), making it simpler to create or update a fabric profile from your Maven project.



## NOTE

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

## DEPRECATED FEATURES

The following features are deprecated from version 6.1:

- Fabric Application Bundle (FAB). You can package modules directly in OSGi bundles.
- Java Business Integration (JBI). You can configure JBI containers to use Camel routes.
- Normalized Message Route (NMR). You can configure bundle-to-bundle communication to use direct-vm Camel routes, or JMS message transport.
- ActiveMQ Web console. You can use the **ActiveMQ** tab on the Fuse Management Console instead.



## CHAPTER 2. KNOWN ISSUES

The following list describes known issues in version 6.1:

### LDAP JAAS login module causes authentication problems for Fabric [FABRIC-1154]

Configuration of LDAP authentication in the context of Fabric does not work as described in [section "Enable LDAP Authentication in the OSGi Container" in "Security Guide"](#). When you configure the LDAP login module as described, authentication fails always. To work around this problem, configure JAAS as follows:

```
<?xml version="1.0" encoding="UTF-8"?>

<blueprint xmlns="http://www.osgi.org/xmlns/blueprint/v1.0.0"
  xmlns:jaas="http://karaf.apache.org/xmlns/jaas/v1.0.0"
  xmlns:ext="http://aries.apache.org/blueprint/xmlns/blueprint-
  ext/v1.0.0">

  <jaas:config name="karaf" rank="2">
    <jaas:module className="io.fabric8.jaas.ZookeeperLoginModule"
      flags="sufficient">
    </jaas:module>
    <jaas:module
  className="org.apache.karaf.jaas.modules.ldap.LDAPLoginModule"
      flags="sufficient">
      initialContextFactory=com.sun.jndi.ldap.LdapCtxFactory
      connection.username=uid=admin,ou=system
      connection.password=secret
      connection.protocol=
      connection.url=ldap://localhost:10389
      user.base.dn=ou=users,ou=system
      user.filter=(uid=%u)
      user.search.subtree=true
      role.base.dn=ou=roles,ou=system
      role.name.attribute=cn
      role.filter=(member=uid=%u)
      role.search.subtree=true
      authentication=simple
    </jaas:module>
  </jaas:config>
</blueprint>
```

Where the **ZookeeperLoginModule** is added to the chain of login modules and *both* the **ZookeeperLoginModule** and the **LDAPLoginModule** are configured with **flags=sufficient**. The **ZookeeperLoginModule** must be present, in order to parse the credentials token. It is *not* necessary to populate the Zookeeper authentication system with user data.

### To secure JBoss Fuse against the POODLE SSLv3 vulnerability, you must disable SSLv3 in some JBoss Fuse components

The POODLE SSLv3 vulnerability can cause JBoss Fuse components that use SSL authentication, such as the embedded ActiveMQ broker and the LDAP authentication module, to be exposed to man-in-the-middle attacks.

Workaround: Manually disable SSLv3 in any deployed components that use SSL authentication. For details on how to disable SSLv3, see the [Disabling SSLv3 in JBoss Fuse 6.x and JBoss A-MQ 6.x](#)

knowledge base article on the Red Hat Customer Portal. For general information about the POODLE SSLv3 vulnerability, see the [POODLE: SSLv3 vulnerability \(CVE-2014-3566\)](#) knowledge base article on the Red Hat Customer Portal.

### The `help` command in the generic Apache Karaf shell causes an exception

By default, you launch the Red Hat JBoss A-MQ console with the `fusemq` command. However, Red Hat JBoss A-MQ also includes a generic Apache Karaf shell that you can launch with the `shell` command. In the generic shell, the `help` command throws an exception. It is not recommend to use the generic Apache Karaf shell.

### The `ls` command might cause an exception

The `ls` console command that you can use to inspect OSGi bundles throws an exception when you run it on some bundles.

### Microsoft Visual C++ Runtime is required on Windows 7 64-bit operating systems

On some 64-bit Windows operating systems you must install [Microsoft Visual C++ 2008 Redistributable Package \(x64\)](#) before you can start Red Hat JBoss A-MQ.

### The `jmx.restart` feature might behave unexpectedly [ENTMQ-570]

When you install and use the `jmx.restart` feature, you might encounter errors.

### Some jClouds feature dependencies must be installed manually [ENTESB-1223]

When you install the `jclouds-rackspace-cloudblockstorage-us` feature, you must manually install some bundle dependencies.

To install the bundles:

1. In the Karaf console, run the command to show the list of feature dependencies in the following format:

```
features:info -d <feature_name>
```

2. Run the command to show the Maven repository that contains the feature bundles on each of the dependencies in the following format:

```
features:info -b <feature_name>
```

3. Run the command to install each bundle directly from the Maven repository in the following format:

```
osgi:install <Mave_repository_URL>
```

After you install all of the bundle dependencies, you can install the feature with the `features:install` command in the same way you normally install features.

### Cannot connect to SSH containers on Windows operating systems with JDK 7 [ENTESB-1211]

The following error message might appear:

```
c:\proj\jboss-fuse-6.1.0.redhat-<build_number>>bin\client.bat
org.apache.sshd.common.RuntimeSshException: Failed to get the session.
at
```

```

org.apache.sshd.client.future.DefaultConnectFuture.getSession(DefaultCon
nectFuture.java:43)
at org.apache.karaf.client.Main.main(Main.java:134)
Caused by: java.io.IOException: The format of the specified network name
is invalid.
at sun.nio.ch.Iocp.translateErrorToIOException(Iocp.java:309)
at sun.nio.ch.Iocp.access$700(Iocp.java:46)
at sun.nio.ch.Iocp$EventHandlerTask.run(Io

```

Workaround: Run the command to manually specify the host name in the following format:

```
bin\client.bat -h <IP_address>
```

### Cannot run jClouds 1.6.3 and 1.7.0 on Oracle databases with OpenJDK 1.7.0 build 51 [JCLOUDS-427]

Workaround: To continue to use jClouds 1.6.3 or 1.7.0, you can use OpenJDK 1.7.0 build 45 or earlier. To use OpenJDK 1.7.0 build 51, you can use a jClouds snapshot of version 1.7.1 or 1.8.0.

To check whether your jClouds version is compatible with your OpenJDK version, run the command to search for the TypeToken2 class in the jclourse-core-<version>.jar file in the following format:

```
$ jar -tvf jclouds-core-<version>.jar org/jclouds/util/TypeToken2.class
```

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

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](#)

### Cannot apply patches with alphabetic characters [ENTESB-1352]

You can specify only numeric characters and periods (.) in profile patch versions. For example, you cannot apply a patch with the version **1.2-amq**.

### You cannot access the management console when you run Red Hat JBoss A-MQ

When you start the Karaf console in JBoss A-MQ and log in to the management console from the browser, the logging console shows the following error message:

```

java.lang.NoSuchMethodError:
org.apache.commons.codec.binary.Base64.decodeBase64(Ljava/lang/String;)
[B

```

Workaround: Delete the **pax-ur1-aether-1.5.2.jar** file from the **lib/** folder.

### KAR files not supported in a Fabric environment

Apache Karaf archive (KAR) files are *not* supported in a Fabric environment and cannot be deployed to a Fabric container. It is possible, however, to deploy KAR files to a non-Fabric container.

## CHAPTER 3. RESOLVED ISSUES

### 3.1. ESB

Table 3.1, “ESB Issues Resolved in 6.1” lists the issues resolved in version 6.1.

**Table 3.1. ESB Issues Resolved in 6.1**

Issue	Description
ENTESB-505	rest and secure-rest examples fail on AIX with java.lang.NoClassDefFoundError: org/apache/cxf/jaxrs/impl/ResponseBuilderImpl
ENTESB-572	log:tail and pressing Ctrl-D freezes karaf shell console
ENTESB-584	Temporary file lingers when returning a file to web service in a camel route
ENTESB-605	pax-url does not handle escaped characters in url.
ENTESB-606	smx4-features-4.5.0.redhat-6-1-x-stable has test failures on AIX, Solaris, and Windows
ENTESB-633	auto-enlisting JDBC drivers in Aries transaction manager is broken
ENTESB-674	NullPointerException on HttpGenerator.toString(HttpGenerator.java:1079)
ENTESB-697	Possible issue with using a http.nonProxyHost and adding a features repository
ENTESB-704	Refresh of the Spring Conetxt causes of CPU spin in Jetty when using SSL configuration
ENTESB-715	Jetty port conflict cause the ESB to hang
ENTESB-716	Generated KARAF-service file fails on Solaris
ENTESB-720	Aries JPA does not compile under JDK 7
ENTESB-732	log:tail throws a NullPointerException
ENTESB-733	Backspace stops working after shutdown command
ENTESB-734	No brokerName=root found after restarting Fuse ESB with kill command in root container
ENTESB-737	fab ignore the proxy configuration in settings.xml
ENTESB-738	LDAPLoginModule in Fuse ESB only returns first role
ENTESB-740	camel-nmr component should use the sync API if NMR is XA enabled
ENTESB-744	SASL-authenticate error in fabric-linkedin-zookeeper

Issue	Description
ENTESB-745	Fuse extra CXF zip doesn't include the netty transport
ENTESB-746	camel-netty-http route throws java.lang.IllegalStateException
ENTESB-752	CXF examples pom version are not updated
ENTESB-753	Unable to admin:create new instance after installing roll-up patch
ENTESB-756	Update to Pax Web 1.1.15
ENTESB-767	JBoss Fuse 6.0.0 is affected by CVE-2013-2160
ENTESB-769	wrong SNAPSHOT version in pom.xml in extras Camel quickstarts
ENTESB-770	EBComponents CxfSeSpringTest and other tests in engines/servicemix-cxf-se hang
ENTESB-774	Exception when adding hawtio profile to root container in fabric
ENTESB-775	FabricAuthenticationException when creating child container in hawt.io
ENTESB-776	Hawt.io fails to create child container when connecting from root container
ENTESB-777	Hawt.io fails to create profile
ENTESB-778	Version numbers are not specified in Create new Profile dialog
ENTESB-779	Version name not used while version creation
ENTESB-780	After pressing Cancel button in Create profile/version the dialog doesn't open again without page refresh
ENTESB-781	Camel waiting thread hangs JBoss EAP shutdown / app undeployment
ENTESB-782	No authentication is required when accessing hawt.io
ENTESB-783	Version name, container name and other input fields have no restrictions on amount of characters entered
ENTESB-784	Error creating containers from profile
ENTESB-785	Opening Karaf tab in hawt.io results in Exception in hawt.io
ENTESB-786	Exception in hawt.io when browsing some endpoints

Issue	Description
ENTESB-788	Leveldb error on startup - kit -018
ENTESB-789	JBoss Fuse 6.0.0 is affected by CVE-2013-1768
ENTESB-790	Fuse ESB Enterprise 7.1.0 is affected by CVE-2013-1768
ENTESB-793	clone container created using admin:clone command doesn't log anything in the log file except lock statement.
ENTESB-799	Error installing camel-jms (kit -021)
ENTESB-800	Logging out of JBoss 6.1 full build 022 shows a NPE in some fabric activemq code
ENTESB-801	Camel Validator component fails to resolve imported schemas
ENTESB-803	Comment out javax.activation;version in jre properties
ENTESB-804	CVE-2013-2035 HawtJNI: predictable temporary file name leading to local arbitrary code execution
ENTESB-805	Security prereqs have changed for 6.1
ENTESB-806	cxfr-nmr transport doesn't support the JAXWS async API
ENTESB-808	More than one bundle is providing package javax.transaction
ENTESB-809	In Firefox input fields for container creation are not displayed
ENTESB-810	camel-netty-http - HTTP Header Host not created properly
ENTESB-811	Chunked HTTP responses break Netty with ClassCastException
ENTESB-812	Can't properly configure SSLContextParameters using Blueprint
ENTESB-819	spring upgrade to 3.1.4 in JBoss Fuse 6.0
ENTESB-821	two version of javax.xml.crypto package exported from container
ENTESB-823	NullPointerException when sending empty message to cxfr endpoint via nmr
ENTESB-824	Warning: encoding "UTF-8" not supported, using UTF-8 - repeatedly logged to the console
ENTESB-827	Some profiles fail to provision
ENTESB-829	The "--force" option is not honored when setting a bundle level below 50.

Issue	Description
ENTESB-832	JBoss Fuse 6.0.0 is affected by CVE-2013-4221
ENTESB-833	add a NPE guard for MimeTypesFileTypeMap
ENTESB-836	Build -043 Permission denied to run JBoss Fuse and to access the examples directory
ENTESB-837	org.apache.servicemix.bundles.commons-beanutils missing import of org.apache.commons.collections
ENTESB-840	JBoss Fuse 6.0.0 is affected by CVE-2013-2172
ENTESB-841	Using admin:clone with the ssh-port, rmi-server-port, and rmi-port options causes java.nio.channels.OverlappingFileLockException
ENTESB-843	JBoss Fuse 6.0.0 is affected by CVE-2013-4152
ENTESB-844	CXF can't be installed - duplicate imports
ENTESB-848	JBoss Fuse 6.0.0 is affected by CVE-2013-2192
ENTESB-849	Getting some errors in log when starting bin\Fuse (-046 kit)
ENTESB-851	Errors at startup for <a href="http://repo.fusesource.com/nexus/content/groups/ea/org/jboss/fuse/jboss-fuse-minimal/6.1.0.redhat-047/jboss-fuse-minimal-6.1.0.redhat-047.zip">http://repo.fusesource.com/nexus/content/groups/ea/org/jboss/fuse/jboss-fuse-minimal/6.1.0.redhat-047/jboss-fuse-minimal-6.1.0.redhat-047.zip</a>
ENTESB-852	fabric:create fails in -049
ENTESB-853	Error deploying the secure-soap example with 6.1.0 build 049
ENTESB-854	Error deploying the jms example with 6.1.0 build 049
ENTESB-855	Unable to initialise camel blueprint due to missing properties file
ENTESB-856	container create hangs on -050 build
ENTESB-858	6.1.0.redhat-054: ResolutionException on creating child container with mq/example-mq profile
ENTESB-859	6.1.0.redhat-054: log:tail command writes to console after canceling it
ENTESB-860	6.1.0.redhat-054 Creating a container based on example-camel fails with error reported in an INFO message
ENTESB-861	Unable to create zookeeper server configuration build 054 and 057

Issue	Description
ENTESB-862	can't access examples folder with 6.1.0 build 054
ENTESB-864	In the description of hawtio container the list of profiles is not updated after adding/deleting a profile.
ENTESB-865	JMSSecurityException is thrown when sending a message to a queue/topic in hawtio in ActiveMQ section
ENTESB-867	Configuration of the AcitveMQ JMX Service URL is done in multiple configuration files
ENTESB-869	smx4-features-4.5.0.redhat-6-1-x-stable build fails on multiple platforms
ENTESB-871	Permissions in examples directory are messed up
ENTESB-874	Camel - The creation of the UnitOfWork should be done after the exchange is populated so that the notification sent contains meaningful data
ENTESB-876	Karaf stable build for JBoss Fuse 6.1 fails
ENTESB-877	Special characters are dropped when generating the LDAP the user and role filters.
ENTESB-880	We should identify an NMR endpoint by EndpointName + ServiceName + InterfaceName in CXF NMR transport.
ENTESB-881	Allow to specify InterfaceName/ServiceName in Camel NMR component.
ENTESB-882	Camel-FOP issues
ENTESB-883	When creating a child container, the default karaf/karaf user is used by default
ENTESB-885	JBoss Fuse Wrapper Service: karaf-service script does not properly set the RUN_AS_GROUP variable if a primary group is not set
ENTESB-886	Fragment bundle can't be deployed if its version has non-numeric characters
ENTESB-894	JMS request/reply
ENTESB-895	Netty Boss thread exceptions
ENTESB-896	aries-blueprint-1.0.1.redhat-6-1-x-stable-checkin TestRegistrationListener.testWithAutoExportEnabled() fails
ENTESB-897	aries-jmx-1.0.1.redhat-6-1-x builds have 4 test failures
ENTESB-898	karaf-2.3.0.redhat-6-1-x AdminServiceImplTest has 3 failures



Issue	Description
ENTESB-899	karaf-2.3.0.redhat-6-1-x UpdateCommandTest and EditCommandTest fail
ENTESB-900	archetypes-2013.01.0.redhat-6-1-x-stable tests fail on windows
ENTESB-901	karaf-2.3.0.redhat-6-1-x-stable ExecuteTest.testExecute fails
ENTESB-902	org.apache.zookeeper.KeeperException\$NoAuthException: KeeperErrorCode = NoAuth when Zookeeper password field left empty in hawtio Create Fabric tab
ENTESB-903	After creating fabric from hawtio root container doesn't start normally
ENTESB-906	aries-jmx-1.0.1.redhat-6-1-x-stable BlueprintMBeanTest.BlueprintSample test fails
ENTESB-907	Problem starting fuse minimal distro
ENTESB-909	Error trying to build examples, could not resolve dependencies
ENTESB-910	BundleException: Unresolved constraint trying to start esb
ENTESB-911	Trouble connecting to local fabric from inside JBDS Fuse plugins
ENTESB-914	Rename demos directory to "quickstarts"
ENTESB-915	aries-jpa-1.0.1.redhat-6-1-x-stable fails with compile errors on JDK6
ENTESB-916	aries-util-1.0.1.redhat-6-1-x-stable FileSystemTest.zipCloseableZipSimplePerformanceTest fails on Windows JDK6
ENTESB-917	cxfr-2.7.0.redhat-6-1-x-stable AsyncHTTPConduitTest may be hanging on Ubuntu JDK6
ENTESB-918	smx4-features-4.5.0.redhat-6-1-x-stable SmxToCxfTest.testInvokingServiceFromCXFClient is failing
ENTESB-919	smx-components-2013.01.0.redhat-6-1-x-stable ScriptingComponentTest has intermittent failures
ENTESB-920	HTTP to HTTP performance problems, very low TPS
ENTESB-921	fabric create fails with Error executing command: No matching service for optional OSGi service reference
ENTESB-922	Examples are building SNAPSHOTS in jboss-fuse-full-6.1.0.redhat-110.zip
ENTESB-923	cxfr-2.7.0.redhat-6-1-x-stable AutomaticWorkQueueTest fails intermittently on slower platforms

Issue	Description
ENTESB-926	NullPointerException attempting command completion
ENTESB-927	IllegalStateException: Unknown protocol: fab trying to install Examples
ENTESB-928	project version text in Example README.md files needs to be replaced with actual version
ENTESB-930	Warnings from Karaf webconsole
ENTESB-933	Rest and Secure-rest examples fail to install with javax.ws.rs.NotFoundException
ENTESB-934	Soap Example does not work as specified in README.md
ENTESB-935	karaf-2.3.0.redhat-6-1-x-stable has 67 test failures
ENTESB-936	Inconsistency of creating fabric from Hawtio and Shell Console
ENTESB-937	Invalid parent profile of jboss-fuse-full profile
ENTESB-939	org.apache.servicemix.cxf.transport.nmr.NMRConduitOutputStream.commitOutputMessage() does not propagate exception.
ENTESB-941	error when install cxf-wsn feature
ENTESB-942	error in the log when launch FUSE ESB
ENTESB-943	Starting jboss fuse full distribution reports errors
ENTESB-946	incorrect Karaf RolePrincipal classname used in NMR
ENTESB-952	NPE in Karaf log:tail after a log:clear
ENTESB-953	build 122 minimal distro fails with missing bundles
ENTESB-954	Build 122 Full Distro: ServiceUnavailableException: The Blueprint container is being or has been destroyed after connecting to a container
ENTESB-955	Netty content header doesn't take "action" into account
ENTESB-959	Enable exclusive lock on MS SQL Server database
ENTESB-960	Cannot create a fabric from within the JBoss Tooling/IDE
ENTESB-967	jboss-fuse - If you startup jboss fuse and run it for a while without creating a fabric you get an ERROR log

Issue	Description
ENTESB-968	jboss-fuse - The terminal plugin does not work in FMC
ENTESB-969	Camel routes activemq consumers stuck on lock
ENTESB-972	Dashboards not loading correctly from fabric
ENTESB-974	IllegalStateException: javax.jms.JMSEException: Stopped. when editing route from HawtIO.
ENTESB-975	ava.lang.OutOfMemoryError: PermGen space occurs sometimes when installing bundles with cxf endpoints
ENTESB-976	hawtio won't uncheck feature after install/uniinstall
ENTESB-978	camel-netty-http - endpoint caching param
ENTESB-982	quickstart - secure-rest - Does not work following the instructions
ENTESB-988	SyntaxError: Unexpected token - When clicked on Preferences in HawtIO
ENTESB-992	Could not create a fabric using build -141 or -140
ENTESB-993	Subscribers on a queue remain open and cause correlation issues
ENTESB-994	There are two ASM bundles in JBoss Fuse 6.1
ENTESB-995	Can't install specific build version of OpenShift cartridge - latest build is installed
ENTESB-996	hawtio - Clicking on the red hat fuse management console logo on top left corner shows blank page
ENTESB-1001	cxf-http-netty and camel-http-netty is using different version of netty
ENTESB-1003	When installing 2 bundles using cxf-http-netty can't access ?wsdl
ENTESB-1005	Hawtio console isn't present in last available build (147)
ENTESB-1006	no -full distro in build 157
ENTESB-1007	fabric-rest bundle not starting up properly
ENTESB-1009	all CXF related quickstarts doesn't work in jboss-fuse-6.1.0.redhat-147 kit
ENTESB-1010	Can't start fuse esb full on linux
ENTESB-1011	latest 6.1 kit miss files folders

Issue	Description
ENTESB-1015	inconsistent permissions on some directories in the install
ENTESB-1021	The packaged version of aws-java-sdk in JBoss Fuse is not correct
ENTESB-1022	User's public key gets encrypted if enabling encryption and the user tries to connect in
ENTESB-1024	Selecting "Dashboard" in hawtio gives error
ENTESB-1029	Need to deploy bundle mvn:org.apache.aries.transaction/org.apache.aries.transaction.jdbc/1.0.1.redhat-610139 out of the box in 6.1.
ENTESB-1032	TypeError: Cannot read property 'status' of null
ENTESB-1035	Error when installing jpa-hibernate
ENTESB-1036	smx4-nmr-1.6.0.redhat-6-1-x-stable ManagementStrategyTest has 20 failures
ENTESB-1037	karaf-2.3.0.redhat-6-1 PropertiesLoginModuleTest.testNonExistantPropertiesFile fails on windows
ENTESB-1039	Unable to install 'war' feature
ENTESB-1040	Vulnerabilities findings on jboss fuse 6
ENTESB-1041	spring artifacts like mvn:org.springframework/spring-xxx/3.2.4.RELEASE isn't a bundle anymore
ENTESB-1042	fuse script for AIX should use JVM option: -Xdump:heap instead of IBM_JAVA_HEAPDUMP_TEXT to control production heapdumps
ENTESB-1043	FuseentErprise build fails with default profiles
ENTESB-1045	FuseentErprise build order
ENTESB-1047	polish rest quickstart CrmTest
ENTESB-1048	Cannot create ssh container
ENTESB-1049	connector feature does not install
ENTESB-1050	JB1 features not installing within pax-exam
ENTESB-1051	Cannot install JMS quickstart

Issue	Description
ENTESB-1055	Container creation method isn't update properly
ENTESB-1058	can't install servicemix-saxon feature
ENTESB-1059	can't install servicemix-drools feature
ENTESB-1061	Error running jms quickstart (kit -204)
ENTESB-1063	Update pax-jetty to 8.1.14.v20131031 in org.apache.karaf.features.core
ENTESB-1065	can't find activemq-camel feature
ENTESB-1067	The welcome page isn't displayed correctly and page title is not set properly
ENTESB-1068	Bugs on Preferences page in hawtio
ENTESB-1069	TypeError: Object # has no method 'remove' in hawtio when log level is set to Debug and opening the Attributes of Topic ActiveMQ.Advisory.MasterBroker
ENTESB-1071	swagger feature need more bundle
ENTESB-1074	Arrow buttons left and right don't move the cursor in Search fields
ENTESB-1075	Hawtio shows incorrect user, and page title when opened in console in the 2nd tab in browser
ENTESB-1076	Chart link is not bookmarkable in hawtio
ENTESB-1078	jms quickstart hangs when installing feature (kit -311)
ENTESB-1079	Not all attributes are present in JMX tab for activemq bean ActiveMQ.Advisory.MasterBroker
ENTESB-1081	Uncaught TypeError: Cannot read property '1' of null appears after pressing Versions or JavaDoc buttons in hawtio Maven tab
ENTESB-1082	Features status (installed/uninstalled) is not update automatically, page not refreshed, after changing its in hawtio
ENTESB-1083	io.fabric8.fab.osgi.itests.FabSamplesWithCamelFeaturesTest.testCamelBlueprintShare test failing
ENTESB-1085	Cannot access Apache CXF kit bin directory
ENTESB-1086	Exception in hawtio when uninstalling a bundle on OSGI tab

Issue	Description
ENTESB-1087	Help topics don't correspond fully to the tabs available in hawtio
ENTESB-1088	Creating durable subscriber results in error when selector is not specified in hawtio
ENTESB-1090	When creating durable subscriber the highlighting of topic doesn't work correctly in Chrome
ENTESB-1091	'IllegalArgumentException: URI is not absolute' when sending message to cxf endpoint in Camel
ENTESB-1094	Exception after creating fabric from hawtio
ENTESB-1095	FuseByExample SMX BootStraps gets NullPointerException on install
ENTESB-1099	After pressing health tab in fabric, the top menu switches to Container menu.
ENTESB-1100	Status provision is empty after creating child container in non managed fabric
ENTESB-1101	[KARAF-2035] - Not able to clone the root instance on Windows
ENTESB-1102	FuseByExample camel-persistence-part1 README.txt refers to non-existent hsqldb jar
ENTESB-1103	FuseByExample rider-auto-osgi needs updates before 6.1 release
ENTESB-1104	FuseByExample camel-dynamic-routing install dynamic-routing-news-service gets ClassNotFoundException
ENTESB-1106	Karaf Shell plugin is not active in hawtio
ENTESB-1107	When container has space in its name it can't start in hawtio
ENTESB-1109	FuseByExample Horo-app fails on features:install horo-db
ENTESB-1110	FuseByExample smx-application-plugins gets RuntimeCamelException on features:install flights-irish-airline
ENTESB-1112	Fuse Fabric - Creating child container - Provision exception, lacks details
ENTESB-1113	Health plugin - cubism java scrip error repeating forever
ENTESB-1116	PermGen is never decreasing leading to out memory exception when redeploying bundles
ENTESB-1118	admin shell script not working, missing shell scripts for win32 platform for child containers
ENTESB-1119	2 archetypes are missing our repository entries

Issue	Description
ENTESB-1122	CXF has multiple test failures on Hudson
ENTESB-1125	cxf-http-netty-client feature - Seems like it does not stop netty thread pool when uninstalled
ENTESB-1126	REST QuickStart fails to install with jboss-fuse-6.1.0.redhat-314
ENTESB-1127	Unable to close repository for quickstarts
ENTESB-1128	camel-cxf - cxf consumer may leak running CXF bus and other resources in the JVM
ENTESB-1130	NPE in Karaf Shell
ENTESB-1133	All tests fail on archetypes-2013.01.0.redhat-6-1-x-stable-platform on RHEL
ENTESB-1137	smx4-components JAXBConverterLoadingSpringTest.initializationError fails on Hudson
ENTESB-1139	smx4-features-4.5.0.redhat-6-1-x-stable-platform build does not run on AIX
ENTESB-1148	Fuse 6.0 is affected by CVE-2013-4517 Apache Santuario XML Security for Java: Java XML Signature DoS Attack
ENTESB-1150	Error importing files into fabric using CLI
ENTESB-1153	SAP JCO :: Camel Component tests fail to run
ENTESB-1154	Create dummy patch jars to test patch
ENTESB-1156	Exception occurs when a feature repository is unavailable on the features page
ENTESB-1157	Wrong feature URL for the fabric features.xml in quickstarts
ENTESB-1159	Unable to start Fuse in OpenShift Enterprise instance
ENTESB-1175	JMX user and password fields filled for child container in Firefox
ENTESB-1176	Hawtio MQ tab doesn't show brokers in Firefox
ENTESB-1177	Wiki tab is displayed twice in container view
ENTESB-1179	camel-sap jar not included in JBoss-Fuse distribution
ENTESB-1180	Component Example needs to be added to build
ENTESB-1181	Libraries in profile cause container deployment to fail

Issue	Description
ENTESB-1182	JBoss Fuse - Welcome message does not mention fabric
ENTESB-1183	NPE in pax-web when creating fabric
ENTESB-1184	Adding kibana profile to root container causes hawtio to not work anymore
ENTESB-1185	TODO in some of the fabric bundle names
ENTESB-1186	hawtio - The UI cuts off sub tabs which makes it look bad and annoying to use
ENTESB-1187	Fuse ESB minimal distro - Cannot creating containers in fabric that works
ENTESB-1189	Maven tab is not always present in the default configuration of hawtio
ENTESB-1190	Unresponsive script window appears after search in Maven tab in hawtio in Firefox
ENTESB-1191	Feature details dialog doesn't disappear after installing a feature
ENTESB-1192	[Fatal Error] :6:3: The element type "hr" must be terminated by the matching end-tag "</hr>". is written in fuse terminal, when installing a bundle with camel to hawtio
ENTESB-1202	Hawtio web console is blocked after deploying insight-core, insight-kibana
ENTESB-1205	profile-download not working due to missing servicemix-nmr version
ENTESB-1206	Can not revert to the previous version config file in the howtio console
ENTESB-1207	Reverting configuration in active profile crashes the container
ENTESB-1208	Incorrect feature definition: process-fabric-1.0.0-SNAPSHOT
ENTESB-1216	Incorrect feature definition: camel-disruptor-camel-2.12.0.redhat-610337
ENTESB-1217	Incorrect feature definition: jclouds-aws-sts/jclouds-1.6.2-incubating
ENTESB-1218	Incorrect feature definition: camel-cmis/2.12.0.redhat-610337
ENTESB-1221	Fuse 6.0 is affected by CVE-2014-0050 apache-commons-fileupload: denial of service due to too-small buffer size used bt MultipartStream
ENTESB-1224	NPE in io.fabric8.maven.impl.MavenProxyRegistrationHandler when remoteRepositories not set
ENTESB-1225	Fabric Karaf Help command does not display something



Issue	Description
ENTESB-1226	hawtio - Creating container on openshift is not possible
ENTESB-1228	Update to jclouds 1.7.1
ENTESB-1236	NPE when installing the first patch on a standalone container
ENTESB-1237	Quickstart examples has SNAPSHOT dependency instead of build number
ENTESB-1238	Installing mq quickstart on local or openshift
ENTESB-1243	soap, secure-soap, and secure-rest quickstarts need to be updated
ENTESB-1249	patch:simulate should not update etc/startup.properties
ENTESB-1250	feature:install does not honor patch overrides
ENTESB-1254	jboss-fuse-6.1.0.redhat-352 rest and soap quickstart install fail if deployed one after another
ENTESB-1256	Xslt doesn't work in Fuse ESB 6.1 Beta
ENTESB-1259	Unable to see output from python script with shell:exec
ENTESB-1260	HTTP/FTP Deployment URL's for Libraries are not supported
ENTESB-1261	Libraries deployed to child containers are not on the child container's classpath
ENTESB-1262	Mixed version of Spring
ENTESB-1264	servicemix-eip fails to install
ENTESB-1267	Cancel button doesn't remove the changes to the name of the Dashboard, after reopening the edit form
ENTESB-1272	hawtio feature includes hawtio-maven-indexer by default, which causes problems in no-internet sites
ENTESB-1277	Configuration of CXF http-netty-server in blueprint doesn't work in Beta 2
ENTESB-1280	CVE-2014-0120 hawtio-karaf-terminal is vulnerable to Cross-Site Request Forgery (CSRF) attacks.
ENTESB-1281	CVE-2014-0121 hawtio-karaf-terminal does not apply any authentication or authorization constraints by default
ENTESB-1282	Creating child container with wrong Jmx credentials displays success message incorrectly

Issue	Description
ENTESB-1283	Non-unique quickstarts names
ENTESB-1284	Cannot build quickstarts from parent pom placed in FUSE_DIR/quickstarts folder
ENTESB-1285	Unable to install REST quickstart on ER3
ENTESB-1286	hawtio doesn't display properly on IE9
ENTESB-1298	fabric:create broken from client command script
ENTESB-1299	Installing the eventadmin causes fails with ClassNotFound Errors
ENTESB-1300	Fuse 6.0 is affected by CVE-2014-0054 Spring Framework: incomplete fix for CVE-2013-4152/CVE-2013-6429
ENTESB-1301	Fuse 6.0 is affected by CVE-2014-1904 cross-site scripting flaw when using Spring MVC
ENTESB-1304	[broken feature] camel-hbase/2.12.0.redhat-610362 requires javax.script package
ENTESB-1319	notices file is essentially empty
ENTESB-1324	Hawtio doesn't display mq brokers and groups correctly
ENTESB-1325	hawtio not displaying correctly on IE 8 and IE 9.
ENTESB-1326	notices generation doesn't work for Maven 3.1.1
ENTESB-1328	[CXF] No SoapFault on one-way web service operations
ENTESB-1336	Hawtio logs out a user in a very short time when main menu tabs are pressed
ENTESB-1337	Cannot connect to new node created by fabric in OpenShift
ENTESB-1339	Can't create new fuse application on OpenShift due to bad Cartridge-Vendor
ENTESB-1340	Can't start child containers in build 372
ENTESB-1036	smx4-nmr-1.6.0.redhat-6-1-x-stable ManagementStrategyTest has 20 failures
ENTESB-606	smx4-features-4.5.0.redhat-6-1-x-stable has test failures on AIX, Solaris, and Windows
ENTESB-946	incorrect Karaf RolePrincipal classname used in NMR
ENTESB-1037	karaf-2.3.0.redhat-6-1 PropertiesLoginModuleTest.testNonExistantPropertiesFile fails on windows

Issue	Description
ENTESB-1139	smx4-features-4.5.0.redhat-6-1-x-stable-platform build does not run on AIX
ENTESB-606	smx4-features-4.5.0.redhat-6-1-x-stable has test failures on AIX, Solaris, and Windows
ENTESB-719	Dependency graph is different in JDK 6 and 7
ENTESB-913	NPE in camel-nmr after installing p3 on 6.0
ENTESB-918	smx4-features-4.5.0.redhat-6-1-x-stable SmxCxfTest.testInvokingServiceFromCXFClient is failing
ESB-1764	jpa-hibernate feature does not install correctly with equinox
ENTESB-802	Upgrade to Spring 3.1.4 from 3.1.3
ENTESB-1058	can't install servicemix-saxon feature
ENTESB-1264	servicemix-eip fails to install
ENTESB-402	smx-components-2012.01.0.fuse-7-1-x-stable-platform ExecEndpointTest timesout on Windows
ENTESB-770	EBComponents CxfSeSpringTest and other tests in engines/servicemix-cxf-se hang
ENTESB-919	smx-components-2013.01.0.redhat-6-1-x-stable ScriptingComponentTest has intermittent failures
SMXCOMP-976	Intermittent test failure in servicemix-scripting
SMXCOMP-978	SimpleBeanFactory should not throw exception in the getAliases() method
ENTESB-1133	All tests fail on archetypes-2013.01.0.redhat-6-1-x-stable-platform on RHEL
ENTESB-900	archetypes-2013.01.0.redhat-6-1-x-stable tests fail on windows
SMX4-1472	servicemix-camel component should honor the synchronous option
SMX4-1486	Update to Camel 2.10.5
SMX4-1513	add type check to avoid CCE in cxf nmr transport
SMX4-1546	The cxf nmr transport should provide a synchronous option

Issue	Description
SMX4-1585	org.apache.servicemix.cxf.transport.nmr.NMRConduitOutputStream.commitOutputMessage() does not propagate exception.
SMX4-1666	ensure nmr get injected when servicemix-camel bundle is started
SMX4-1447	can't endorse activation smx activation-api-1.1 spec jar
SMX4-1534	add a NPE guard for MimeTypesFileTypeMap
SMX4-1624	NPE in servicemix spec MailcapCommandMap

## 3.2. MESSAGING

Table 3.2, “Messaging Issues Resolved in 6.1” lists the issues resolved in version 6.1.

**Table 3.2. Messaging Issues Resolved in 6.1**

Issue Number	Description
ENTMQ-94	We have both activemq and mq webconsole listed in the features
ENTMQ-111	standalone webconsole error "java.lang.IllegalStateException: Broker is not yet started" when master instance is restarted in master/slave pair.
ENTMQ-169	Pending Queue Counter is incorrect when using durable topics
ENTMQ-173	Broker may be unable to recover durable topic subscription from the kahadb journal
ENTMQ-224	ER1: JMS TCKs violations: if connection is reused in EJB, second usage is out of transaction
ENTMQ-238	jdbcPersistenceAdapter does not use lockCreateStatement value
ENTMQ-242	Web Demo doesn't work
ENTMQ-243	External broker clients using discovery protocol have osgi dependencies.
ENTMQ-250	CR1: solaris 10 and aix 7.1 startup problem
ENTMQ-261	The Resource Adapter ignores the JMSXGroupID when dispatching to MDBs
ENTMQ-273	FMQNetworksFabricDiscovery.html in documentation incorrectly documents the Discovery URI as discovery://(fabric://nwBrokers)
ENTMQ-274	Nullpointer when using TimeStampingBrokerPlugin & IndividualDeadLetterStrategy

Issue Number	Description
ENTMQ-277	Client connections are not being rebalanced when a new broker joins the network
ENTMQ-280	Fix and merge <a href="https://issues.apache.org/jira/browse/AMQ-4292">https://issues.apache.org/jira/browse/AMQ-4292</a> (persisted redelivery flag)
ENTMQ-282	Un-browsable messages in broker mesh with large volume of data
ENTMQ-283	org.apache.activemq.tooling:activemq-maven-plugin:5.8.0 - The parameters 'project' for goal org.apache.activemq.tooling:activemq-maven-plugin:5.8.0.redhat-60023:run are missing or invalid
ENTMQ-285	consumer.close() on transacted session does not release prefetched messages
ENTMQ-286	Updates to the configuring and running guide
ENTMQ-288	second network connector in list not picking up configured network.userName
ENTMQ-289	mq-web-console profile in fabric
ENTMQ-290	mkahadb with perDestination="true" lazily loads kahadb journal files after startup
ENTMQ-293	Problems with SSL & Java 7
ENTMQ-294	Security guide updates required
ENTMQ-296	ActiveMQResourceAdapter.getXAResources() broken
ENTMQ-299	Make web console secured by default when it is deployed (hardening fix for CVE-2013-3060)
ENTMQ-304	extras/apache-activemq-...-bin.zip is missing libraries for LevelDB persistence adapter
ENTMQ-309	Deadlock when message expires on a temporary destination and queue is going away
ENTMQ-322	Messages stuck in queue with redelivered=true
ENTMQ-329	Broker recovery very slow when using jdbc persistence adapter and vmcursor
ENTMQ-331	jdbcPersistenceAdapter does not auto select the appropriate Database JDBC adapter
ENTMQ-332	jdbcPersistenceAdapter: tablePrefix is ignored when the jdbcPersistenceAdapter.adapter attribute is set
ENTMQ-334	Network consumers remaining when remote consumers are disconnected
ENTMQ-336	Fuse bundles feature is missing in the distro

Issue Number	Description
ENTMQ-337	Improve DestinationFilter to allow any filter to unsubscribe its wrapped destination from a durable subscription
ENTMQ-338	Persistent message lost when java.io.InterruptedIOException happens with manual intervention
ENTMQ-339	JDBCIOExceptionHandler does not restart TransportConnector when JMX is enabled on broker - java.io.IOException: Transport Connector could not be registered in JMX
ENTMQ-340	Negative JMX QueueSize attribute in due to purging a queue
ENTMQ-341	Persistent message moved from ActiveMQ.DLQ to another queue can be lost
ENTMQ-342	ServerSession of JCA resource adapter may close down in case of using failover transport preventing any further messages to be dispatched.
ENTMQ-346	Master Slave not working well with mKahaDB
ENTMQ-349	Can not remove default JMX port 1099 if the <managementContext connectorPort="2001"> section is located after <networkConnectors> section in activemq.xml file
ENTMQ-357	When using store cursor with oracle persistent store, the broker is locking up when trying to receive messages
ENTMQ-358	Missing library xpp, xml pull parser
ENTMQ-360	QueueBrowser hangs when browsing large queues
ENTMQ-361	The lease-database-locker does not work properly if master/slave broker servers are out of sync with Database server
ENTMQ-363	Some jars missing in apache-activemq-5.8.0.redhat-60024
ENTMQ-366	JDBCPersistence DB stopped during message send; JMSEException is sent back to client rather than shutting down connection
ENTMQ-368	JDBCPersistence DB stopped during message send with JDBCIOExceptionHandler configured; IOException/SQLException is sent back (sometimes) to the client before the transport connector is shutdown
ENTMQ-370	Consume message in transaction not working with AMQP transport
ENTMQ-372	Background and the text on the connection information screen for the amq web console in a-mq are both black
ENTMQ-375	In some case, JMS browse return duplicate messages in infinite loop

Issue Number	Description
ENTMQ-377	java.lang.LinkageError when trying to start child container
ENTMQ-378	Failover with client ack mode consumer can loose a message auto acked as a duplicate
ENTMQ-379	JMS TCKs violation REGRESSION: InvalidDestinationException should be thrown on Session.unsubscribe("foo")
ENTMQ-380	unsubscribed durable subscriptions come back after broker restarted
ENTMQ-382	mq-discover; mq broker instances disappear from cluster-list when zookeeper session is expired and new session established - it can result in two active broker in master/slave setup.
ENTMQ-386	activemq-osgi pegging CPU(s)
ENTMQ-387	TotalMessageCount not decremented if the entire queue is removed
ENTMQ-389	JBoss A-MQ 6.0.0 is affected by CVE-2013-4152
ENTMQ-394	JMSClientTest.testTXConsumerAndLargeNumberOfMessages fails intermittently
ENTMQ-397	populateJMSXUserID is not setting the JMSXUserID property on the JMS message
ENTMQ-400	Message marshalledproperties corrupt when using composite destinations and message groups.
ENTMQ-402	Fuse MQ: scheduled task used by LeaserLocker to renew lease is stopped when the new org.apache.activemq.broker.SuppressReplyException is thrown, allowing two brokers to become master.
ENTMQ-407	Unable to add camel routes to activemq running in a karaf container
ENTMQ-410	ActiveMQ creates & initializes ACTIVEMQ_LOCK in wrong database when using separate lock data source
ENTMQ-411	[org.apache.activemq.ActiveMQConnection] (ActiveMQ Transport: tcp://localhost/127.0.0.1:61616@51487) dispatch paused, waiting for outstanding dispatch interruption processing (1) to complete..
ENTMQ-412	Enable PooledConnectionFactory to retain the DestinationName that has been passed in.
ENTMQ-414	Linkage error when restarting the container
ENTMQ-420	Upgrade qpid client to 0.24

Issue Number	Description
ENTMQ-423	using LeaseDatabaseLocker; broker periodically fails to restart after losing and reacquiring the lease, fails with exception - javax.management.InstanceAlreadyExistsException: org.apache.activemq:type=Broker,brokerName=jdbcBroker,service=Health
ENTMQ-424	runtime config url not available from pid factory - broker context is null
ENTMQ-429	Resolve spring schema locally in karaf - runtime configuration plugin
ENTMQ-432	Can't create replicated broker in a fabric connected A-MQ disto. Get: java.lang.NoClassDefFoundError: org/linkedin/zookeeper/client/AbstractZKClient
ENTMQ-434	Fabric Master node not starting up on fresh deployment
ENTMQ-435	ZooKeeperMultiGroup for MQ is not closed when the mq-fabric bundle gets stopped.
ENTMQ-436	'IOException: invalid record position' error shows up on a leveldb slave
ENTMQ-437	NullPointerException when using replicated leveldb
ENTMQ-439	Refine recent browseQueue enhancements (AMQ-4181)
ENTMQ-443	Broker doesn't start after creating a Fabric inside jboss-fuse-full
ENTMQ-444	Stuck messages in a network of brokers that don't get dispatched to consumer
ENTMQ-445	java.lang.OutOfMemoryError: GC overhead limit exceeded when runtimeConfigurationPlugin is added to activemq.xml with namespace prefix
ENTMQ-446	Sometimes broker doesn't start after modifying activemq.xml when <runtimeConfigurationPlugin checkPeriod="1000"/> added to plugins
ENTMQ-447	Improve checksum for corrupted journal files
ENTMQ-451	activemq:dstat command can throw exception
ENTMQ-453	lease-database-locker does not use the configured tablePrefix in UPDATE statement
ENTMQ-454	After adding simpleAuthenticationPlugin to activemq.xml the changes are not applied by watcher
ENTMQ-455	Modification of virtual destinations is not applied correctly by watcher
ENTMQ-457	KahaDB index corrupted but no errors are reported
ENTMQ-458	Watcher doesn't work for Destination policy gclInactiveDestinations



Issue Number	Description
ENTMQ-459	MQTT+NIO fails when 1000 clients publish 1 msg/sec
ENTMQ-461	Bug in the WebConsole RemoteJMX connectivity
ENTMQ-462	NPE when adding authorizationPlugin when using watcher
ENTMQ-464	FuseByExample WebsocketExample JBoss A-MQ section fails to install
ENTMQ-465	FuseByExample external-mq-fabric-client depends on FMC
ENTMQ-466	AmqpErrorException occurs with multiple concurrent topic consumers
ENTMQ-467	vm transport does not detect connection loss and is unable to reconnect
ENTMQ-468	java.lang.OutOfMemoryError: Java heap space Exception when sending big amount(1000+) of 1M non persistent messages to broker
ENTMQ-471	Session.send() should return JMSEException
ENTMQ-472	Client Producer should return connection error
ENTMQ-473	Master doesn't shutdown when leveledb quorum lost, reports the connection to the client is taking a long time to shutdown
ENTMQ-475	Topic DurableConsumer do not consume messages after DB connection is restored by the Broker.
ENTMQ-476	consumer.receive hangs when receiving message of size 1Mb with amqp
ENTMQ-477	Method Connection.close() hangs after jmx broker restart with amqp
ENTMQ-479	Session.createConsumer(destination) hangs after jmx broker restart with amqp
ENTMQ-483	Fails to receive 2000 messages from queue with consumer.receive(5000) with amqp
ENTMQ-484	Selectors don't work correctly for amqp with transport.transformer=raw
ENTMQ-485	CMS package - failing integration tests
ENTMQ-486	Durable subscriber doesn't receive messages with levelDb running on amqp protocol
ENTMQ-488	JDBCPersistenceAdapter: queue messages trapped in store when DB connection is lost and restored

Issue Number	Description
ENTMQ-489	activemqweb console is not able to display JMS Message Header values containing XML/HTML tag snippet
ENTMQ-491	Durable subscriber doesn't receive messages on amqp with client qpuid-amqp-1-0-client-jms version 0.26-SNAPSHOT and 0.28-SNAPSHOT
ENTMQ-493	Method session.createTopic(topicName) of qpuid-amqp-1-0-client-jms creates queue instead of topic, unless its name is not prefixed with 'topic:/'
ENTMQ-496	JDBCPersistenceAdapter; When duplicate message occur from network producer, message is stuck in DB even when enableAudit="false"
ENTMQ-499	[Doc] Update docs on making activemq-jaas work well with karaf (or any other) authentication module
ENTMQ-501	" java.lang.ClassCastException: org.apache.activemq.command.ExceptionResponse cannot be cast to org.apache.activemq.command.IntegerResponse, attempting to automatically reconnect"
ENTMQ-505	Reduce the reliance on fsync when writing to disk (AMQ-4947)
ENTMQ-506	Parameter forwardOnly is not applied by watcher in virtual destinations
ENTMQ-507	sending big amount(1000+) of 1M non persistent messages to broker raises following exception
ENTMQ-508	No message received from topic
ENTMQ-509	javax.transaction.RollbackException: ARJUNA016053: Could not commit transaction - when re-using UserTransaction
ENTMQ-510	Not delivered messages after clean shutdown of master
ENTMQ-511	Cannot start JBoss A-MQ server on Solaris
ENTMQ-513	activemq-camel should explicitly Import-Package org.apache.activemq.pool
ENTMQ-515	JBoss A-MQ 6.1.0 is affected by CVE-2013-6429
ENTMQ-517	very large number of org.apache.activemq.ActiveMQSession\$2 held and never released by ActiveMQConnection[ID:XXX] Scheduler thread.
ENTMQ-518	Sockets in org.apache.activemq.transport.tcp.TcpTransportServer#socketQueue are not handled
ENTMQ-520	Both test cases in LDAPLoginModuleTest are failing

Issue Number	Description
ENTMQ-530	ttl set on message is not converted to an expiry time stamp
ENTMQ-534	disable jmx broker restart by default in a-mq
ENTMQ-536	amqp - slow consume of large messages
ENTMQ-539	Can't start broker after migration from 6.0
ENTMQ-541	Leveldb Startup error in standalone distros
ENTMQ-542	Broker with LevelDB (JNI driver) Could not load any of the index factory classes:leveldbjni.JniDBFactory on Windows
ENTMQ-545	Broker side redeliveryDelay does not work
ENTMQ-546	MQTT Interop test client fails against JBoss A-MQ
ENTMQ-547	EMBARGOED A-MQ 6.0 is affected by CVE-2014-0003 Camel remote code execution via XSL
ENTMQ-548	EMBARGOED A-MQ 6.0 is affected by CVE-2014-0002 Camel XML eXternal Entity (XXE) flaw in XSLT component
ENTMQ-551	Session.commit() hangs when amqp+nio is used
ENTMQ-555	A-MQ 6.0 is affected by CVE-2013-7285 XStream RCE due to insecure XML deserialization
ENTMQ-562	Incorrect feature definition: mq-fabric-camel/6.1.0.redhat-SNAPSHOT
ENTMQ-563	A-MQ 6.0 is affected by CVE-2014-0050 apache-commons-fileupload: denial of service due to too-small buffer size used bt MultipartStream
ENTMQ-566	mq-default broker waits to become a master when it restarts from a configuration change
ENTMQ-568	FilePendingMessageCursor cannot be cast to org.apache.activemq.broker.region.cursors.StoreDurableSubscriberCursor
ENTMQ-575	EMBARGOED A-MQ 6.0 is affected by CVE-2014-0085 Apache Zookeeper: admin user cleartext password appears in logging
ENTMQ-578	session.createConsumer(queue) fails after sending message of size 1 Mb for amqp+nio
ENTMQ-585	A-MQ 6.0 is affected by CVE-2014-1904 cross-site scripting flaw when using Spring MVC
ENTMQ-592	Error installing boot feature "patch": feature not found

Issue Number	Description
ENTMQ-593	LevelDB sync=true is not being honored.
ENTMQ-609	session = conn.createSession(false,Session.AUTO_ACKNOWLEDGE); hangs for amqp, and amqp+nio
AMQ-1063	Journalized JDBC checkpoint fails with java.io.IOException: Already started.
AMQ-2505	Problem with servicing broker messages when client hostName contains "language specific" characters (org.apache.activemq.util.IdGenerator problem)
AMQ-2536	XPath selectors return false if xalan is not on the classpath
AMQ-2938	ActiveMQ Console requires Jasypt bundle which is not part of the ActiveMQ features
AMQ-2942	Can't configure an inactivity monitor for https transport
AMQ-2960	PooledConnectionFactoryBean returns null in OSGi env sometimes
AMQ-3101	Issues in password encryption
AMQ-3303	Standalone Webconsole crashes when accessing master-slave failover activeMQ
AMQ-3350	amq.js initHandler() method swallows first message received
AMQ-3447	When MessageListenerServlet is running under servlet3, the continuation is not timing out.
AMQ-3560	Destinations do not implement javax.resource.Referenceable and will not be registerable in JNDI by some compliant JCA containers.
AMQ-3580	Documentation on integration with spring contains misleading part regarding embedded broker
AMQ-3725	Kahadb error during SAN failover delayed write - Allow kahaDB to recover in a similar manner as the JDBC store using the IOExceptionHandler
AMQ-3776	synchronization error in MessageListenerServlet.getAjaxWebClient
AMQ-3777	Incorrect variable name in bin/activemq
AMQ-3922	HSQLDB support is broken as wrong data type is used in HsqlJdbcAdapter.java
AMQ-4073	Cannot shut down broker under certain conditions with schedule delivery and producer flow control
AMQ-4092	ConcurrentModificationException when using message groups

Issue Number	Description
AMQ-4212	Broker may be unable to recover durable topic subscription from the kahadb journal
AMQ-4277	activemq-web - REST GET 204
AMQ-4325	camel doesn't honor credentials set on activemqcomponent bean via spring
AMQ-4343	activemq-web-console can't be installed on Karaf 2.2.x
AMQ-4356	unsubscribes DurableSubscriber does not work well with Virtual Topics
AMQ-4361	Deadlock during close while publishing to flow-controlled queue
AMQ-4371	RSS and ATOM feeds doesn't work in web-console
AMQ-4372	WebConsole throw Java Heap Space when browse a queue with more than 100 elements
AMQ-4376	JoramJmsTest QueueBrowserTest.testSenderBrowser fails intermittently.
AMQ-4413	Persistent message loss when JMS durable subscriber reconnects regardless of message store impl.
AMQ-4428	Don't swallow errors in IntrospectionSupport.setProperty
AMQ-4435	ActiveMQConnectionFactory should populate "consumerFailoverRedeliveryWaitPeriod"
AMQ-4437	JUnit deprecation warnings
AMQ-4441	Race condition in PooledConnectionFactory.createConnection
AMQ-4461	Priority backup with multiple brokers
AMQ-4463	org.apache.activemq.bugs.AMQ4368Test.testENTMQ220 fails intermittently
AMQ-4464	NonBlocking redelivery redelivers messages in reverse order.
AMQ-4467	Memory usage percent can be exceeded much if PFC is disabled
AMQ-4468	TimeStampPlugin doesn't work with Stomp
AMQ-4469	Maximum connections control can not work in concurrent environment
AMQ-4471	Inconsistent messages with the WebSocket/Stomp Demo
AMQ-4472	consumer.close() on transacted session does not release prefetched messages

Issue Number	Description
AMQ-4475	NullPointerException with IndividualDeadLetterStrategy and TimeStampBrokerPlugin
AMQ-4484	NetworkConnectors create a consumer for queue://
AMQ-4485	Skipped message dispatch with concurrent transacted sends at cursor memory limit
AMQ-4486	ActiveMQResourceAdapter.getXARessources() broken
AMQ-4487	java.lang.OutOfMemoryError: Java heap space
AMQ-4495	Improve cursor memory management
AMQ-4500	Changes to AMQ2832Test cause SparseAckReplayAfterStoreCleanupLevelDBStoreTest to fail
AMQ-4501	Failover priorityBackup doesn't work if client accepts updates to its list of known URIs from the broker.
AMQ-4504	Stalled pending message dispatch to composite destination consumer
AMQ-4505	Client doesn't fail over to other broker if updateClusterClientsOnRemove = true
AMQ-4507	FailoverTransport throws NullPointerException
AMQ-4512	MemoryUsage waitForSpace in inconsistent state
AMQ-4513	Deadlock can occur on dispose of TempQueue that contains expired Messages
AMQ-4516	Don't decrement topic enqueues when messages are expired
AMQ-4517	The Advisory for Messages being sent to the DLQ is sent regardless of the Message actually being DLQd
AMQ-4519	MasterLevelDBStore does not shutdown its protocol server when stopped
AMQ-4529	leveldb store NPEs when you send to a composite destination.
AMQ-4530	activemq-web unable to show StringProperties on Message
AMQ-4531	TcpTransportServer can leak FDs when maximumConnection is set and the limit exceeded
AMQ-4532	shutdown of VMTransportServer should report disposed exception to peer pending requests
AMQ-4534	When using ElectingLevelDBStore cannot delete all messages on startup

Issue Number	Description
AMQ-4535	activemq configured with leveldb commit fail when accessed by PutGet f-tion from IBM Perf Harness
AMQ-4540	NetworkBridge - don't wait for ever for demandSubscription pending send responses on remove
AMQ-4542	Broken javax.jms.Message.getObjectProperty(String)
AMQ-4544	Cant send MQTT message to AMQP endpoints
AMQ-4548	KahaDB can recover old inflight XA transactions that keep logs from being cleaned up.
AMQ-4554	NumberFormatException when parsing JMSXProducerTXID
AMQ-4555	Locking in SimpleCachedLDAPAuthorizationMap can lead to delays in Message dispatch.
AMQ-4559	Minor error in org.apache.activemq.transport.amqp.JMSClientTest
AMQ-4560	Exception from AMQP transport when dispatching Messages from the store.
AMQ-4562	SimplePriorityMessageDispatchChannel.clear() needs to reset size attribute
AMQ-4563	Persisted messages reappear after broker restart when using amqp
AMQ-4568	org.apache.activemq.transport.amqp.AmqpTransformerTest#testRawTransformation hangs
AMQ-4575	JDBCIOExceptionHandler does not restart TransportConnector when JMX is enabled on broker - java.io.IOException: Transport Connector could not be registered in JMX
AMQ-4576	MQTT BlockingConnection.receive fails when subscribing multiple topics
AMQ-4581	JDBCPersistenceAdapter can ignore statements settings depending on configuration order.
AMQ-4582	Specifying invalid ciphersuite in SSL transport causes all available ciphersuites to be enabled
AMQ-4585	MQTT BlockingConnection.receive fails when receiving pending messages after reconnect without cleaning session
AMQ-4587	AMQP to JMS transformer fails to properly map AMQP specific property types like UnsignedInteger
AMQ-4588	org.apache.activemq.util.IdGenerator calls non-configurable new ServerSocket(0);
AMQ-4589	Race condition in AjaxListener causes lost messages

Issue Number	Description
AMQ-4591	CronParser bug on getNextScheduledTime to handle the once per minute case <code>"* * * * *"</code>
AMQ-4592	MySQL 5.1.25 change driver name
AMQ-4595	QueueBrowser hangs when browsing large queues
AMQ-4596	AMQP: JMSSecurityExceptions are not propagated back to QPID client on authentication failures
AMQ-4598	Negative JMX QueueSize attribute in due to purging a queue
AMQ-4599	Only package the pure java LevelDB driver by default
AMQ-4604	Update QPID Client version to 0.22
AMQ-4605	AMQ2149KahaDBTest is redundant
AMQ-4606	BrokerXmlConfigStartTest fails on activemq-leveldb-replicating.xml
AMQ-4609	NetworkConnector MBean registered early, causing wrong MBean server to be started
AMQ-4610	ActiveMQ shows icon in Dock on MacOSX (with solution)
AMQ-4623	InstallService.bat, UninstallService.bat running failed on explorer(win32,64)
AMQ-4625	XPP Pull parser lib missing from AMQ distro
AMQ-4628	Improve Performance of JDBC store with large number of messages
AMQ-4629	REST MessageServlet swallowing Messages on high traffic topic
AMQ-4634	Rar losing messages when there is a XA trx timeout (jboss)
AMQ-4638	Tell broker to use only the space it thinks it has
AMQ-4640	We should run JoramJmsTests with amqp+nio
AMQ-4641	JoramJmsTest QueryBrowserTest fails when run with amqp+nio
AMQ-4643	JDBCPersistence DB stopped during message send with JDBCIOExceptionHandler configured; IOException/SQLException is sent back (sometimes) to the client before the transport connector is shutdown
AMQ-4645	The lease-database-locker does not work properly slave broker ssystem clock is behind Database server



Issue Number	Description
AMQ-4648	fix script created by ./bin/activemq create to be able to pass command line args and run in the background
AMQ-4651	Messages consumed in a TX from AMQP client are not removed from the Queue
AMQ-4655	We should run JoramJmsTests with amqp+ssl
AMQ-4656	Pending Queue Counter is incorrect when using durable topics
AMQ-4665	Failover with client ack mode consumer can loose a message auto acked as a duplicate
AMQ-4670	DurableSubDelayedUnsubscribeTest.testProcess fails intermittently
AMQ-4671	REGRESSION: InvalidDestinationException should be thrown on Session.unsubscribe that has no sub
AMQ-4672	[JMS Client] Set the SNI field on SSL connections
AMQ-4673	Application that uses activemq-camel fails deploying to GlassFish v4
AMQ-4674	ActiveMQ 5.x does not support the notion of a grace-period for heart beats as supported by the STOMP protocol
AMQ-4676	ActiveMQ not compliant with JSR-250 (@PostConstruct, @PreDestroy)
AMQ-4677	LevelDB can't move all message data logs that are no longer used
AMQ-4678	Timeout for StompLoadTest.testStompUnloadLoad is too long
AMQ-4683	Scheduler discards overdue messages on startup
AMQ-4685	LDAPLoginModule throws InvalidNameException when resolving LDAP aliases
AMQ-4686	Message browsing denied for stomp protocol 1.2
AMQ-4695	Cannot connect as Anonymous over MQTT TransportConnector
AMQ-4696	Durable Subscriptions are not created properly when using AMQP
AMQ-4702	Error resolving org.jvnet.jaxb2_commons packages
AMQ-4704	Stomp unit tests fail
AMQ-4705	Add keep alive support to shared file locker

Issue Number	Description
AMQ-4711	totalMessageCount stat is not properly updated when destination is removed
AMQ-4712	MQTT unit tests fail
AMQ-4713	org.apache.activemq.transport.amqp.JMSClientTest.testTXConsumerAndLargeNumberOfMessages fails
AMQ-4714	If multiple MessageInterceptors are registered, a stack overflow can occur
AMQ-4717	populateJMSXUserID is not setting the JMSXUserID property on the JMS message in JMX
AMQ-4719	Enable "Link Stealing" as an option on a Connector
AMQ-4725	FailoverUriTest hangs
AMQ-4726	Text information of ant producer durable option is not correct
AMQ-4729	mKahaDB master slave needs lock when filtered adapter locks are created on the fly
AMQ-4731	TempQueueMemoryTest started failing recently.
AMQ-4740	heart-beat is disabled when connecting to web socket
AMQ-4741	Qpid producer.send with sync_publish=true set against activemq blocks and doesn't return
AMQ-4744	Support using LevelDB as a nested store in mKahaDB
AMQ-4746	Applet ClassLoader Problems
AMQ-4747	WARN in hawt.io console
AMQ-4748	Default configuration raises an exception at shutdown
AMQ-4753	amqp+nio+ssl: infinite loop during initial handshake with SSL + client certs
AMQ-4769	Connection.close() throws exception if already closed.
AMQ-4785	Failover maxReconnectAttempts=0 incorrectly calls org.apache.activemq.transport.TransportListener#transportInterrupted
AMQ-4788	Add support for allowing the broker to partition client client load across a broker cluster using a partitioning config
AMQ-4791	[org.apache.activemq.ActiveMQConnection] dispatch paused, waiting for outstanding dispatch interruption processing (1) to complete..

Issue Number	Description
AMQ-4798	Destination limit for advisory topic very high after recent commit
AMQ-4813	webconsole - Viewing message details when message ID contains a plus results in " No message could be found for ID {messageID}"
AMQ-4820	runtime config - namespace prefix causes npe on config load
AMQ-4823	NetworkConnector not registered in JMX when created from Broker View
AMQ-4829	activemq:dstat command can throw error for topic subscriptions views
AMQ-4832	Broker limits store space, not taking into account what it's already using
AMQ-4837	LevelDB corrupted when in a replication cluster
AMQ-4840	Invalid STOMP frame sent on websocket connections with heartbeats.
AMQ-4841	lease-database-locker does not use the configured tablePrefix in UPDATE statement
AMQ-4853	Advisory support leads to excessive CPU usage
AMQ-4854	JmsRollbackRedeliveryTest.testRedeliveryWithPrefetch1 fails intermittently
AMQ-4855	Typos in SubscriptionInfo
AMQ-4857	WSServlet.doWebSocketConnect throws NPE if called with null protocol
AMQ-4869	Wrong JMX object name created in RemoteJMXBrokerFacade
AMQ-4874	DurableSubscriptionOfflineTest.testOrderOnActivateDeactivate fails on CI boxes
AMQ-4876	SslContextNBrokerServiceTest fails intermittently on CI boxes
AMQ-4877	QueueMbeanRestartTest fails intermittently
AMQ-4882	LevelDB can get to a corrupt state when using XA transactions
AMQ-4884	Wildcard matches do not match
AMQ-4886	AMQ2149LevelDBTest hangs or fails frequently
AMQ-4887	ActiveMQBytesMessage will lost content if message's property was set before copy
AMQ-4889	ProxyConnector memory usage skyrockets when several ssl handshakes fails

Issue Number	Description
AMQ-4892	MQTT clients disconnecting due to socket error do not publish the configured last will and testament message.
AMQ-4893	UTF8Buffer should be a valid object for setObjectProperty
AMQ-4896	MQTT does not properly restore durable subs with the Paho client.
AMQ-4897	Race condition in failover transport
AMQ-4899	Multiple consumers of the same virtual topic queue cannot have different message selectors
AMQ-4904	jdbc ioexception handler can restart transports in error after lease expriy
AMQ-4905	runtime config - embed spring beans schema to avoid trip to the internet in osgi land
AMQ-4906	advisory producerCount = 0 is not received on temporary queue
AMQ-4907	kahadb - do some sanity check on the index when checkForCorruptJournalFiles
AMQ-4910	Windows batch script doesn't like spaces in installation path
AMQ-4914	AMQP consumer hangs when receiving large messages
AMQ-4917	LevelDB store can fail when using durable subs
AMQ-4920	AmqpErrorException occurs with multiple concurrent amqp topic consumers
AMQ-4923	Replicated LevelDB: Loss of broker Quorum fails to fully stop the master
AMQ-4924	Duplicate messages are left in the persistence store
AMQ-4927	clients can not receive mqtt retained message
AMQ-4930	java.lang.OutOfMemoryError: Java heap space Exception when sending big amount(1000+) of 1M non persistent messages to broker
AMQ-4934	JDBCPersistenceAdapter: queue messages trapped in store when DB connection is lost and restored
AMQ-4938	Queue Messages lost after read timeout on REST API.
AMQ-4950	" java.lang.ClassCastException: org.apache.activemq.command.ExceptionResponse cannot be cast to org.apache.activemq.command.IntegerResponse, attempting to automatically reconnect"

Issue Number	Description
AMQ-4952	When duplicate message occur from network producer, messages blocked by cursor audit are blocked till restart
AMQ-4958	Ignored InterruptedException in IdGenerator
AMQ-4962	Connections not closing on AMQP connector when client closes its side.
AMQ-4967	activemq-camel should explicitly Import-Package org.apache.activemq.pool
AMQ-4970	Deletion of a queue ineffective across broker restart
AMQ-4972	FailoverConsumerTest.testPublisherFailsOver is failing
AMQ-4973	UnreliableUdpTransportTest and MulticastTransportTest have test failures
AMQ-4974	Remove NetworkConnectionsCleanedupTest?
AMQ-4975	DbRestartJDBCQueueMasterSlaveLeaseQuiesceTest.testSendReceive fails intermittently
AMQ-4976	Remove hawt.io console from official distro
AMQ-4977	Memory leak in ConnectionStateTracker when browsing non-empty queues
AMQ-4978	JoramJmsNioTest hangs intermittently
AMQ-4980	MessageGroupLateArrivalsTest.testConsumerLateToBigPartyGetsNewGroup fails intermittently
AMQ-4988	Possible case of curruption in Scheduler store
AMQ-4991	JmsSendReceiveTwoConnectionsWithSenderUsingPoolTest.testSendReceive fails with NPE in PooledProducer
AMQ-4994	Web Console - java.lang.OutOfMemoryError: Java heap space - while browsing deep queues
AMQ-4995	Runtime Configuration Plugin - reapply destination interceptor after reload
AMQ-4998	Old Web Admin console does not manage - new parameter messageTTL consumerTTL connections.jsp and connections Panel display error messages
AMQ-5001	AbortSlowAckConsumer0Test has multiple test failures
AMQ-5002	AMQP: If a proton client only sets the ttl, and not the message timestamp, ActiveMQ does not handle the expiration correctly

Issue Number	Description
AMQ-5003	On overlapping Failover a session can consume large amounts of memory trying to clear consumer state.
AMQ-5006	Upgrade surefire to the latest version
AMQ-5013	RestPersistentTest sometimes hangs on CI boxes
AMQ-5017	ActiveMQPrefetchPolicy.setAll sets inputStreamPrefetch incorrectly
AMQ-5021	org.apache.activemq.bugs.MemoryUsageBlockResumeTest sometimes hangs
AMQ-5028	Remove jetty and jsp compiler jars from web-console.war
AMQ-5029	embedded webconsole broker does not resolve activemq.data system property
AMQ-5033	webconsole url and html encoding missing
AMQ-5035	deleting durable subscriber exception
AMQ-5036	AMQ4914.testSendHugeMessage times out on slow CI boxes
AMQ-5038	RAR - Active session can delay/block endpoint deactivation on shutdown
AMQ-5041	JMSClientTest is hanging
AMQ-5042	Session.commit() hangs when amqp+nio is used
AMQ-5043	Improve MQTT spec compatibility
AMQ-5047	Maven version affects packaging
AMQ-5051	MQTTInactivityMonitor throws a NullPointerException
AMQ-5053	BrokerRedeliveryTest.testNoScheduledRedeliveryOfExpired fails intermittently
AMQ-5054	Display the number of active transactions and age of oldest transaction on a Connection's JMX info
AMQ-5058	Broker MUST respond with CONNACK with return code 0x02 for zero length client id and 0 cleansession
AMQ-5059	The first packet from client to Broker MUST be a CONNECT packet, Broker MUST disconnect when UNSUBSCRIBE is the first packet
AMQ-5062	JMSClientNioTest fails intermittently

Issue Number	Description
AMQ-5065	MQTT Retained message QoS must be set to a maximum of Subscription's QoS
AMQ-5066	Duplicate MQTT Subscription with a different QoS for the same Topic MUST remove the older Subscription
AMQ-5070	Broker should stop accepting work when trying to shut down transports
AMQ-5071	Wrong or incomplete log message in PooledTaskRunner class.
AMQ-5073	Session.commit() hangs when amqp+nio+ssl is used
AMQ-5074	MQTT paths with empty levels are not handled correctly
AMQ-5075	AMQP Transport throws unauthorized access for all error that occur during a connection attempt
AMQ-5080	RAR - missing messages on master slave failover
AMQ-5087	RedeliveryPolicy redeliveryDelay is ignored if initialRedeliveryDelay is specified
AMQ-5089	Inflight Count for topics is not correct
AMQ-5090	Improve Failover transport transaction tracking
AMQ-5092	MQTT uses duplicate packet IDs for PUBLISH messages
AMQ-5093	amqp with nio or nio+ssl fails when sending large messages
AMQ-5096	AMQP Protocol doesn't send back meaningful errors for unauthorized access
AMQ-5099	Useless or dead code in OpenWireFormat class.
AMQ-5101	MQTT SUBACK packet MUST use return code 0x80 to report failed topic subscriptions
AMQ-5102	AMQ4914Test.testSendHugeMessage times out on CI boxes
AMQ-5104	Show non-durable Topic subscriptions on the web console
AMQ-5106	unable to build trunk from scratch due to missing dependency
AMQ-5108	MQTT subscriptions for cleansession=true MUST be non-durable
AMQ-5110	No disposition set on Discharge response for AMQP TX commit or rollback
AMQ-5112	MQTT server connections are not thread safe

Issue Number	Description
AMQ-5113	JmsCronSchedulerTest fails intermittently because of race condition in test
AMQ-5115	LevelDB sync=true is not being honored.
APLO-245	The LevelDB store does not seem to get cleaned/compacted
APLO-284	Invalid log position warnings
ENTESB-1262	Mixed version of Spring
ENTESB-788	Leveldb error on startup - kit -018
ENTMQ-224	ER1: JMS TCKs violations: if connection is reused in EJB, second usage is out of transaction
ENTMQ-304	extras/apache-activemq-...-bin.zip is missing libraries for LevelDB persistence adapter
ENTMQ-394	JMSClientTest.testTXConsumerAndLargeNumberOfMessages fails intermittently
ENTMQ-402	Fuse MQ: scheduled task used by LeaserLocker to renew lease is stopped when the new org.apache.activemq.broker.SuppressReplyException is thrown, allowing two brokers to become master.
ENTMQ-418	AMQ2149LevelDBTest hangs on AIX7 and Solaris
ENTMQ-439	Refine recent browseQueue enhancements (AMQ-4181)
ENTMQ-444	Stuck messages in a network of brokers that don't get dispatched to consumer
ENTMQ-445	java.lang.OutOfMemoryError: GC overhead limit exceeded when runtimeConfigurationPlugin is added to activemq.xml with namespace prefix
ENTMQ-505	Reduce the reliance on fsync when writing to disk (AMQ-4947)
ENTMQ-510	Not delivered messages after clean shutdown of master
ENTMQ-520	Both test cases in LDAPLoginModuleTest are failing
ENTMQ-546	MQTT Interop test client fails against JBoss A-MQ
ZOOKEEPER-1334	[ZOOKEEPER-1334] Zookeeper 3.4.x is not OSGi compliant - MANIFEST.MF is flawed

### 3.3. ROUTING



Table 3.3, “Routing Issues Resolved in 6.1” lists the issues resolved in version 6.1.

**Table 3.3. Routing Issues Resolved in 6.1**

Issue	Description
CAMEL-4857	Endpoint URI normalization: information in path is lost
CAMEL-5206	Different servlets interfere with each other
CAMEL-5376	Mail component does not work as expected (Email Deletion is partially broken et Disconnect does not work well)
CAMEL-5440	mock endpoint should not add the expect header check task every time we call the expectedHeaderReceived()
CAMEL-5455	Allow configuring dataCoding independent of alphabet
CAMEL-5459	Folder closed too early when working asynchronously
CAMEL-5476	HTTP GET request fails on Yahoo historical data download BUT AHC succeeds
CAMEL-5555	In ScheduledRoutePolicy a suspended route cannot be started
CAMEL-5616	Share properties configuration between CDI and CamelContext
CAMEL-5626	JmsToJmsTransactedSecurityTest in camel-jms fails every now and then
CAMEL-5682	possible NullPointerException in org.apache.camel.util.ObjectHelper.getCamelPropertiesWithPrefix(prefix, camelContext)
CAMEL-5684	possible null pointer exception for FTP endpoint
CAMEL-5685	File consumer - May delete file too early when using multicast
CAMEL-5741	camel-cdi - Adding duplicate route builder beans to internal list
CAMEL-5844	Camel Tracer not showing some EIP names
CAMEL-5876	autoStartup=false in camelContext misbehaves
CAMEL-5885	httpClient parameter prevent the use of Intercept in camel-http4.
CAMEL-5928	SJMS component's pom.xml missing taskmanager package in camel.osgi.private.pkg
CAMEL-5964	Camel feature file doesn't validate
CAMEL-6004	Tokenize XML does not support self-closing XML tokens

Issue	Description
CAMEL-6033	NoRedeliveryOnShutdown doesn't work for DeadLetterChannel
CAMEL-6041	Bindy does not handle separator at the end of quoted field, appends next field
CAMEL-6060	spring-dm and blueprint - OSGi language resolver does not work
CAMEL-6078	Multiple http4 components modify each other port setting
CAMEL-6093	Multiple consumers exists on the same JMS endpoint uri and if you remove a consumer the other active consumers do not receive any messages anymore.
CAMEL-6107	Language option not working for twitter streaming event filter
CAMEL-6109	<to/> step in a <doCatch/> block runs when the <doTry/> tag is closed in the wrong place
CAMEL-6111	camel-test-blueprint - May parse blueprint xml file concurrently and start 2 Camels
CAMEL-6133	Logger destroys SaxSource
CAMEL-6134	camel-jclouds - Does not work in OSGi - Seems META-INF/services loader may not work
CAMEL-6136	camel-xmlrpc: In message headers not preserved
CAMEL-6138	camel-xmlrpc: dataformat not included in jar
CAMEL-6160	CamelSpringJUnit4ClassRunner ignores annotation based context configurations.
CAMEL-6168	SQL component will not look for parameters in header when no body in message
CAMEL-6171	camel-cxf - Should detect existing User-Agent header to avoid adding duplicate
CAMEL-6187	http4 component should default to charset based on content type
CAMEL-6188	CXF cosumer should set Exchange's charset name, if content type provides one
CAMEL-6191	Simple expression and predicate behaviors are different when accessing to map with a space in the key
CAMEL-6197	Memory leak when using CometD producer
CAMEL-6219	FTPOperations changeCurrentDirectory uses local OS path separator, instead of FTP Server. File upload fails.
CAMEL-6231	Camel Split doesn't processes the payload of the file, received via FTP

Issue	Description
CAMEL-6234	camel-bindy - Multiple models in the same package lead to unpredictable results
CAMEL-6243	npe when receiving a soapfault with the CXF_MESSAGE dataformat
CAMEL-6244	camel:run in blueprint is broken
CAMEL-6250	Setting id on endpoint in <from> may not work
CAMEL-6252	camel-aws - Possible concurrent modification exception
CAMEL-6253	JettyToCxfRs proxy doesn't work
CAMEL-6255	NotifyBuilder - whenSentTo - Should be per exchange and not a shared state
CAMEL-6259	Scheduled thread pools is not removed from JMX when shutting down
CAMEL-6261	Simple ognl expression - Possible NPE when using String replaceFirst and replacing with an empty string
CAMEL-6262	org.apache.camel.support.ServiceSupport: InputStream not being explicitly closed
CAMEL-6267	camel-cxfRs blueprint configure could not be installed if there are some subelement settings
CAMEL-6271	StringQuoteHelper - Should ignore whitespace between quoted parameters
CAMEL-6274	camel-example-reportincident failed
CAMEL-6275	camel-example-route-throttling failed
CAMEL-6276	camel-example-spring-jms failed
CAMEL-6277	camel-example-spring-security failed
CAMEL-6278	camel-example-reportincident-wssecurity failed
CAMEL-6280	camel-example-osgi failed
CAMEL-6281	camel-example-cxf-tomcat failed
CAMEL-6283	Restarting routes using sql aggregation repository may lead to Class loading issues
CAMEL-6284	camel-fop - Does not propagate headers
CAMEL-6287	UnknowHostException does not reach onCompletion() if consumer.bridgeErrorHandler is enabled

Issue	Description
CAMEL-6291	<routeContext> can't be reused in multiple contexts when properly placeholder resolution is used
CAMEL-6297	Commands doesn't support a custom JMX Agent
CAMEL-6298	Camel dont set ID for ToDefinition object, when using validate in the route
CAMEL-6300	AdviceWith doesn't work with doTry
CAMEL-6302	Mina UDP default codec should keep the data as byte[]
CAMEL-6305	debugBefore() and debugAfter() not called if unit test extends CamelBlueprintTestSupport
CAMEL-6307	Regression in 2.11.0 bean invocation
CAMEL-6309	Sftp upload to subdirectory does not work if home directory is root ("/" or "")
CAMEL-6311	DeadLetterChannel - When messages sent to DLQ it should always regard it as handled = true
CAMEL-6312	Setting exceptionHandler on consumer from uri should work
CAMEL-6313	Property placeholder optimization broke placeholders in Spring camelContext configuration
CAMEL-6317	Camel-validator not able to resolve schema when using useSharedSchema=false
CAMEL-6319	Not possible to advice activemq endpoint with options
CAMEL-6322	camel-example-cxf-osgi camel-example-cxf-blueprint have some warning when running the test
CAMEL-6323	FixedLength Bindy DataFormat does not work with @Link
CAMEL-6326	BridgePropertyPlaceholderConfigurer does not support nested Spring properties from System variables
CAMEL-6328	Simple expression and predicate have different behaviors when used along with properties
CAMEL-6333	StringQuoteHelper not able to handle single quote inside double quote
CAMEL-6335	Sftp cannot change to parent directory in a stepwise fashion
CAMEL-6341	DefaultShutdownStrategy shutdown timeout of 0 will never timeout and go in negative time
CAMEL-6348	SecurityException in HDFS producer/consumer when no security configuration is present

Issue	Description
CAMEL-6349	camel-restlet - Should set response correctly on Exchange depending on has out or not
CAMEL-6352	camel-shiro - Should detect new username if always reauthenticate is false
CAMEL-6358	BigDecimalFormat can't deal with the number with big precision
CAMEL-6367	The logic in stream producer should sync (lock) and not per method which is wrong
CAMEL-6374	vm component - Stopping a route when using multipleConsumers should not stop MP if there is other routes using it
CAMEL-6375	Headers are not set correctly in some situation
CAMEL-6385	New restlet endpoints don't work if route is created after restlet server is started.
CAMEL-6390	Route with suspended SedaConsumer can't be stopped correctly
CAMEL-6395	bean language - Should always use ?method= as preferred way for specifying the method name, can cause problems with the old dot style
CAMEL-6396	camel-solr - Should close its resources when stopping
CAMEL-6400	CamelContext fails to start using placeholder in "simple" in conjunction with BridgePropertyPlaceholder
CAMEL-6404	cCXF route proxy cannot return Fault message to client when Dataformat is CXF_MESSAGE
CAMEL-6413	File consumer - Race condition for markerFile read lock strategy
CAMEL-6414	LOG-Eip log an ERROR by evaluating Simple Language expression
CAMEL-6416	ScriptBuilder Some scripting are exception lost
CAMEL-6421	Graceful shutdown with maximum redeliveries enabled from seda route may hang
CAMEL-6432	baseResource of Jetty ServletContextHandler does not work when project deployed as a bundle
CAMEL-6434	The configAdminFileName property does not be picked up when run command: mvn camel:run
CAMEL-6436	camel-rss and camel-atom - Should includes feeds with same pub timestamp as it okay
CAMEL-6440	loss of data on xpath after cxf (payload-mode)

Issue	Description
CAMEL-6441	Exception in service start (when before start it was in stopped state) leaves service in starting state
CAMEL-6442	camel-netty-http route throws java.lang.IllegalStateException
CAMEL-6443	camel-quickfix - Engine that could not start (e.g. because of store creation problems) is still stored in the engines map, thus making further starts problematic
CAMEL-6447	endChoice() has no effect in nested choice definition
CAMEL-6452	FileUtil.getDefaultTempDir() causes a classloader leak in webapps
CAMEL-6455	Bean component - Calling a bean with method name with () as empty parameter - Better error message if method does not exist
CAMEL-6461	camel-quartz - Stateful job - Redeploying bundle/war and having changed endpoint uri issue
CAMEL-6464	connectionTimeout property is ignored by JavaMail
CAMEL-6473	NULL values are not supported in named parameters
CAMEL-6478	TestNG test cases not working correctly with groups
CAMEL-6499	Copy of GenericFileMessage returns NULL from toString
CAMEL-6501	camel-cxf-transport's blueprint/camel.xsd xml schema is invalid
CAMEL-6504	org.apache.camel.main.Main#doStop() throws java.lang.IndexOutOfBoundsException
CAMEL-6514	SFTP: NPE if no private key file is supplied
CAMEL-6516	camel-mina and camel-mina2 fail when configured with Spring or blueprint
CAMEL-6537	Routing slip EIP - Does not send ExchangeSentEvent notifications
CAMEL-6538	NPE in validator component if no classpath prefix
CAMEL-6540	camel-netty - Add option to enrich Camel message with client certificate details to make it easy to get these details
CAMEL-6541	DefaultUnitOfWork's headers for the original message are the same object as the in message headers
CAMEL-6544	StringQuoteHelper should skip the separate character

Issue	Description
CAMEL-6546	Installation of camel-mybatis feature fails
CAMEL-6548	XQueryBuilder will override any saxon Configuration provided
CAMEL-6549	ManagedBacklogTracer implements an incorrectly named ManagedTracerBacklogMBean interface
CAMEL-6557	AbstractListAggregationStrategy does not work with batch completion strategy
CAMEL-6561	Inserting JSON like data with sql component cause a java.lang.StackOverflowError
CAMEL-6563	camel-netty - unable to consume on UDP multicast addresses
CAMEL-6569	xslt component with saxon=true does not work in OSGi
CAMEL-6571	Wrong InputStream reference is used in method storeFile of class ScpOperations
CAMEL-6572	Validator component - Loading resource on classpath with relative paths doesnt work in OSGi
CAMEL-6573	adjust to the changed behavior in ehcache's CacheManager instance creation
CAMEL-6574	FTP consumer does not detect file changes
CAMEL-6576	Fix a potential NPE
CAMEL-6585	camel-cxf should shutdown the bus when the endpoint is stopped.
CAMEL-6586	JMX - browsable endpoints such as seda has some attributes listed as unavaiable
CAMEL-6592	Invalid javadoc for org.apache.camel.spi.ShutdownStrategy#setTimeout
CAMEL-6593	Predicates from java dsl are not dumped to xml correctly
CAMEL-6595	camel-cmis component: test packages have the wrong name
CAMEL-6599	camel-netty-http - Must include HOST header in client and server must validate HOST header exists
CAMEL-6602	camel-cxf ClassCastException when use cxf FailoverFeature
CAMEL-6604	Routing slip and dynamic router EIP - Stream caching not working
CAMEL-6605	Custom HttpClientConfigurer makes Basic Authentication and Proxy settings ineffective

Issue	Description
CAMEL-6606	When restart camel, lucene index folder always by empty
CAMEL-6607	Tokenize XML does not support child elements with names similar to their parent
CAMEL-6609	CXF FailoverFeature does not take effect when camel-cxf producer uses async invocation
CAMEL-6610	Always got IndexOutOfBoundsException when customized id of wireTap component
CAMEL-6614	quartz consumer - Suspend and resume does not work
CAMEL-6617	RabbitMQConsumer doesn't put the body into message
CAMEL-6624	csv component doesn't accept tab character as delimiter
CAMEL-6625	potential NPE in CxfConsumer if the PAYLOAD not match the ServiceModel
CAMEL-6626	Search criteria for toSentDate throws NPE
CAMEL-6627	Splitter should close iterator if there was an exception and stopOnException enabled
CAMEL-6630	Validation using JAXB format is not thread safe
CAMEL-6641	SJMS component throws class cast error when used with IBM Webshpere MQ
CAMEL-6652	Resolving endpoints before route start leads to JMX registration failure
CAMEL-6656	spring-batch - Looses headers
CAMEL-6658	camel-example-loan-broker - is broken on master
CAMEL-6662	camel-yammer - don't share requestor between different endpoint types
CAMEL-6663	camel-sap-netweaver throws JsonParseException when using json=false option
CAMEL-6667	Loop EIP doesn't honour copy option in some circumstances
CAMEL-6669	doneFileName=\${file:name} don't work with ftp component
CAMEL-6672	RabbitMQConsumer doesn't call the queueDeclare rightly
CAMEL-6683	camel-dozer - Does not work well in OSGi Blueprint
CAMEL-6684	camel-cxf RAW message data format doesn't support MTOM



Issue	Description
CAMEL-6687	Using simple language OGNL expressions doesn't work for Bean Binding when a field is null
CAMEL-6690	Memory leak SoapOutInterceptor.writeSoapEnvelopeStart with security headers
CAMEL-6691	seda - queue size compare should use equals
CAMEL-6693	Camel-5676 introduced a regression for JMX with spring/blueprint
CAMEL-6695	mbeansRegistered in DefaultManagementAgent isn't ThreadSafe
CAMEL-6696	camel-cxf should not setup the holder and wrapperClass interceptors in CXF_MESSAGE data format
CAMEL-6699	camel-blueprint - Using routeContextRef to refer to a RouteBuilder in another bundle causes ClassCastException
CAMEL-6700	camel-blueprint - Using <endpoint> and referring to SSLContextParameters with property placeholders can lead to CircularDependencyException
CAMEL-6702	camel-http4 - In bridge mode should use noop cookie store to not eat memory
CAMEL-6709	camel-yammer - Endpoint yammer:current throws JsonMappingException exception
CAMEL-6714	Installation of camel-stomp feature fails
CAMEL-6723	Message history - Possible ArrayIndexOutOfBoundsException
CAMEL-6726	Camel-Redis: Serializer passed through URI is used only on consumer
CAMEL-6727	XML Signature Component: Stream not closed in XmlSignerHelper.getXsltTransform(String path)
CAMEL-6730	camel-netty - RequestTimeout should not trigger if we read data
CAMEL-6740	System property org.apache.camel.jmx.createRmiConnector is ignored with spring xml
CAMEL-6741	Upgrade to hadoop 1.2.1
CAMEL-6743	Using @Simple (or others) bean parameter binding for boolean type should eval as predicate
CAMEL-6750	readLock=fileLock causes GenericFileOperationFailedException
CAMEL-6752	Bean binding to covariant methods throws AmbiguousMethodCallException

Issue	Description
CAMEL-6757	scp task does not respect StrictHostKeyChecking option
CAMEL-6758	Null Pointer exception when removing SjmsComponent
CAMEL-6762	HttpConnectionManagerParams doesn't take effect when it is set to HttpComponent
CAMEL-6767	rabbitmq component sends basic ack after channel closed when endpoint is set to autoAck
CAMEL-6770	camel-resltet - Restlet producer problem after recent upgrade
CAMEL-6771	ConcurrentModificationException thrown from inside camel splitter
CAMEL-6779	StaxConverter: encoding problems for XMLEventReader and XMLStreamReader
CAMEL-6781	IntrospectionSupport.setProperty ClassCastException if you have overloaded methods
CAMEL-6789	Missing packages from camel-quartz2.jar
CAMEL-6790	Resuming a bundle that uses blueprint+camel fails if it was suspended externally
CAMEL-6793	Camel 2.12 shows unexpected warning "Cannot determine current route from Exchange"
CAMEL-6796	camel-xmlsecurity - Some options is not exposed as getter/setters
CAMEL-6797	camel-quartz2 - The test SpringQuartzConsumerTwoAppsClusteredFailoverTest fails and the same test passes well by camel-quartz
CAMEL-6800	Bean language - Having dots in parameters cause bean id lookup problem
CAMEL-6802	Using stopOnException in splitter should not copy result back as we should preserve original exchange
CAMEL-6804	camel-facebook - Problem with jsonStoreEnabled option
CAMEL-6810	Bean Component/BeanBinding: Body as InputStream parametr (specified as <code>#{body}</code> in route)
CAMEL-6817	Multiple NPE during unmarshal with PGPDDateFormat
CAMEL-6818	Netty - SSLContext should be initialized once and reused - Also race condition in current code
CAMEL-6821	RabbitMQ Component unable to transfer custom headers

Issue	Description
CAMEL-6822	camel-facebook - Error when calling endpoint with options from header and configuration bean
CAMEL-6823	STOMP endpoint not configurable via URI options
CAMEL-6825	Jetty component should remove httpClientMinThreads & httpClientMinThreads from parameters during endpoint creation
CAMEL-6828	JettyContentExchange hides the original error
CAMEL-6832	camel-quartz - Memory leak - when an exception is thrown during the scheduling phase
CAMEL-6839	Facebook endpoint incorrectly sets the nameStyle field to GET_AND_SEARCH even when no search* candidate methods are found
CAMEL-6845	Using recipient list to a route that has no error handler should allow caller route to trigger its error handler
CAMEL-6847	FacebookConsumer does not decode the Reading since field correctly
CAMEL-6851	Target name with underscores and cron expression throws Exception in QuartzComponent.createEndpoint
CAMEL-6853	UnsafeUriCharactersEncoder is missing hex digits
CAMEL-6854	Type conversion between DOMSource and InputStream breaks on Windows
CAMEL-6861	camel-netty-http route cannot proxy the response which is chunked
CAMEL-6866	ConcurrentModificationException when starting QuickFIX/J component with more than one engine
CAMEL-6867	camel-hdfs - HdfsProducer filename collisions when Producer instance recreated
CAMEL-6870	camel-script - Memory leak if creating a lot of expressions and predicates
CAMEL-6871	Log component removes line separators from logged message
CAMEL-6872	camel-netty-http - Content-Type may have optional action parameter
CAMEL-6873	Camel-Gson does not respect Exchange.CHARSET_NAME
CAMEL-6874	camel-jpa - Avoid sharing the same EntityManager object across JpaEndpoint, it's Producers & Consumers as per se EntityManagers are not thread-safe.
CAMEL-6878	camel-cxf-transport component does not include Content-Type in the map of headers

Issue	Description
CAMEL-6880	camel-http4 - Should support defining multiple components with different names
CAMEL-6881	The XmlSignatureProcessor only supports the Santuario SecurityProvider
CAMEL-6888	camel-jclouds JcloudsPayloadConverter doesn't copy the inputStream
CAMEL-6889	CBR - Should break out if exception was thrown when evaluating predicate
CAMEL-6895	camel-xmljson: Encoding is not considered while marshaling
CAMEL-6903	camel-netty-http - Endpoint should include params in uri so they are unique
CAMEL-6905	IMAP message flagged as SEEN following rollback
CAMEL-6910	xslt endpoint - JMX attributes for state and camelId not available
CAMEL-6914	Camel fails to send messages to IPv6 address with a port number
CAMEL-6915	camel-jetty - jetty producer misses a colon in the getUrl of HttpOperationFailedException
CAMEL-6921	camel-netty - producer channel pool should not close channel on destroy from pool, but noop
CAMEL-6922	XmlConverter cannot convert from ElementNSImpl to Document
CAMEL-6926	ContentType does not returns "multipart/form-data;boundary=-----j2radvtrk"
CAMEL-6932	The "dns.server" is not optional.
CAMEL-6936	FTP route with idempotent repo does not detect modified files
CAMEL-6940	tokenize xml for splitter throwing org.xml.sax.SAXParseException; XML documents structures must start and end within the same entity.
CAMEL-6941	ConcurrentModificationException while shutting down camel
CAMEL-6945	camel-netty-http producer should close the connection when the request connection header is close
CAMEL-6948	ProducerCache should not only stop non-singelton Producers but also shutdown them afterwards as well if the given Producer is a ShutdownableService
CAMEL-6964	Camel FileComponent: Done file will not be removed if moveFailed option is configured and an error occurs

Issue	Description
CAMEL-6967	Problem with trunking idempotent filestore when parent directory not exists
CAMEL-6974	Missing fields in RestResources DTO in Salesforce component
CAMEL-6983	camel-paxlogging ignores some properties from the local thread
CAMEL-6987	JMX - browseMessageAsXml for files does not work if includeBody is enabled
CAMEL-6991	Problem with stream caching and DefaultHttpBinding.writeResponse
CAMEL-6994	Camel load balancers should be restartable
CAMEL-6996	Missing "throw" statements in CdiCamelContext
CAMEL-7005	camel-stream - stream in requires 2 x enter to react in console demo
CAMEL-7009	RabbitMQ Consumer does not pick up REPLY_TO
CAMEL-7011	Upgrade CXF version to 2.7.7
CAMEL-7016	JMX - Update route from xml on route mbean should update current route only
CAMEL-7018	Using custom beans with @ManagedResource shows unavailable standard attributes
CAMEL-7021	Allow clearing of field 'Name' for upserts in Salesforce component
CAMEL-7025	StaxConverter throws NPE
CAMEL-7028	tooling - Using the embedded goal of the Camel Maven Plugin ends up with a NPE
CAMEL-7029	quartz2 - Simple trigger should repeat forever by default
CAMEL-7031	RabbitMQ Producer not able to use the default exchange
CAMEL-7035	camel-core-osgi doesn't properly handle different version of the same bundle
CAMEL-7036	Camel XSD validation not working with apache xerces
CAMEL-7037	tooling - Using the embedded and run goals of the Juice Maven Plugin ends up with a NPE
CAMEL-7042	Graceful shutdown of RabbitMQConsumer requires channel.close()
CAMEL-7044	We should ignore the rabbitmq.ROUTING_KEY when bridgeEndpoint option is true
CAMEL-7045	BacklogTracer - dumpTracedMessages should check for route id as well

Issue	Description
CAMEL-7049	Cannot set JMSReplyTo with a topic destination when sending a message to a queue
CAMEL-7052	PGPDataFormat: Unable to encrypt using subkey
CAMEL-7055	NullPointerException at FileInputStreamCache.<init>(FileInputStreamCache.java:52) in connection with DataFormat.marshal
CAMEL-7057	Issue with password having double &&
CAMEL-7058	camel-sql - Setting SQL_ROW_COUNT header is not updated if the header already exists
CAMEL-7061	DefaultCxfRsBinding only uses Exchange.getOut()
CAMEL-7062	Tracer, BacklogTracer and BacklogDebugger should stop/shutdown when Camel does that
CAMEL-7064	JcrProducer ignores existing nodes and creates invalid node hierarchies
CAMEL-7068	Flatpack skips 1 row every 2 rows when using split with streaming=true
CAMEL-7069	Sending an empty soap body message to a generic provider camel-cxf consumer results in NPE
CAMEL-7073	camel-restlet - request headers are sent in response
CAMEL-7077	FtpEndpoint createRemoteFileOperations should keep the parameter for next invocation
CAMEL-7085	ZooKeeperProducer should shutdown the ConnectionManager when it is closed
CAMEL-7087	StreamCache does not reset at the end of the pipeline
CAMEL-7096	The ObjectHelper#createIterator utility should properly adhere the java.util.Iterator contract
CAMEL-7100	CLONE - Camel Splitter eat up exceptions recorded by the underlying Scanner
CAMEL-7102	Broken JUnit classes for testing authentication in camel-jcr
CAMEL-7107	camel-sjms NullPointerException in case of connection loss
CAMEL-7111	Multicast EIP with only one child processor does not call aggregate strategy
CAMEL-7112	A single call of consumerTemplate.receiveBody consumes more than one messages from a SEDA queue
CAMEL-7116	JettyHttpProducer.doStop does not stop client thread pool

Issue	Description
CAMEL-7120	NullPointerException on BindyFixedLengthFactory.unbind()
CAMEL-7123	Enable Xml Transformer security processing feature by default
CAMEL-7125	tokenizeXml fails when attributes have a / in them
CAMEL-7129	Remove the CamelXsltResourceUri header from xslt component
CAMEL-7130	Set XsltBuilder allowStax attribute to be true by default
CAMEL-7132	QuartzComponent with custom Scheduler and multiple contexts requires JMX to be enabled
CAMEL-7139	Problem with MvelExpression class visibility between camel bundles
CAMEL-7141	Custom HeaderFilterStrategy does not work when set it on either component or endpoint uri
CAMEL-7142	CsvDataFormat unmarshal overwrites delimiter in static CSVStrategy strategies
CAMEL-7143	camel-groovy - Evaluation returns 1st result only
CAMEL-7145	Added username, password options on cxf endpoint
CAMEL-7146	NPE in Aggregator when completionSize = 1
CAMEL-7155	Incorrect implementation of the method StringHelper.hasStartToken()
CAMEL-7159	camel-bindy not picking up @Link annotation items
CAMEL-7160	Throttling has problems with rate changes
CAMEL-7161	camel-dozer - Can cause dead-lock in init when using spring
CAMEL-7163	BacklogDebugger - Should not change body/header type to string
CAMEL-7167	AbstractListAggregationStrategy : at the end of the split, the body is not replaced by the aggregated list
CAMEL-7172	camel-netty - Some options in netty configuration do not support # lookup
CAMEL-7182	camel-guice - PostConstruct do not throw checked exception
CAMEL-7183	Failed to validate camel-fop feature

Issue	Description
CAMEL-7185	APT - Should check inherited class/interface for UriParam when scanning
CAMEL-7192	PGPDataFormat: Sub-Key not supported for signing and correct selection of encryption/signing key via KeyFlag
CAMEL-7194	[cxfrs] Bus features aren't initialized
CAMEL-7200	getComponentDocumentation do not work in OSGi
CAMEL-7207	CxfRsEndpoint should accept in/out interceptors and properties
CAMEL-7209	NIOConverter.toByteArray return bad data.
CAMEL-7210	getComponentDocumentation does not work if component name has dash in name
CAMEL-7213	NIOConverter need to call flip() when we put something into the buffer
CAMEL-7219	Language endpoint with constant cannot load from classpath
CAMEL-7230	SJMS does not respect QoS settings (ttl/persistence) for sending to queues
CAMEL-7275	Using doTry .. doCatch with recipient list should not trigger error handler during recipient list work
CAMEL-7279	Yammer now uses bearer token for auth
CAMEL-7299	camel-hbase feature should depend on scripting-api bundle
CAMEL-7310	Restlet - Need to run in sync mode due bug in restlet
DIRMINA-908	Mina 2.0.5 is no longer binary compatible with 2.0.4 due slight API change in IoAcceptor
ENTESB-1119	2 archetypes are missing our repository entries
ENTESB-1228	Update to jclouds 1.7.1
ENTESB-1262	Mixed version of Spring
MR-772	In Facebook component for Fuse option jsonStoreEnabled=true doesn't enable to call DataObjectFactory.getRawJSON
MR-781	Facebook endpoint incorrectly sets the nameStyle field to GET_AND_SEARCH even when no search* candidate methods are found
SMX4-1395	EHCACHE bundle should include the META-INF/services so the ServiceLoader works



### 3.4. WEB SERVICES

Table 3.4, “Web Services Issues Resolved in 6.1” lists the issues resolved in version 6.1.

**Table 3.4. Web Services Issues Resolved in 6.1**

Issue	Description
CXF-2701	Make slf4j-jdk14 optional dependency in http-jetty
CXF-2704	CXF JAX-RS "Content-Disposition" is lost for second multipart
CXF-3045	cxfcodgen-plugin does not support XMLBeans generated classes/sources properly
CXF-3329	idl2wsdl: attributes of structs with the same name as a type do not show up in XSD
CXF-3613	Various problems with "java.lang.Class"
CXF-4019	wsdl2js creates code which when run causes error: 'returnObject' is undefined
CXF-4301	Problem with Implicit Soap Headers and @ResponseWrapper in methods with multiple response attributes: NullPointerException in ReflectionServiceFactoryBean or Response-Marshalling Error
CXF-4391	org.apache.cxf.configuration.spring.ConfigurerImpl.initWildcardDefinitionMap does not fail silently when bean names containing certain characters do not parse as a regex
CXF-4491	WS-A FaultTo sending incoming headers to faultTo
CXF-4529	PermGen Leak for CXFAuthenticator (WS Client Configuration)
CXF-4546	@XMLInstruction
CXF-4547	java first externalAttachment wsdl enhancements
CXF-4550	Wsd2Java fails if tmp folder contains spaces
CXF-4551	MTOM + SchemaValidation results in empty input stream from data handler
CXF-4552	typical HTML form payload does not seem to work when HTML form is used
CXF-4554	"http://schemas.xmlsoap.org/soap/http/" should not be in the SoapTransportFactory active namespaces list
CXF-4556	JAX-RS SAML TLS HolderOfKey check does not work
CXF-4557	More unclosed XMLStreamReader/Writer - CXF-4523
CXF-4560	Default JAX-RS SAML Claim NameFormat is incorrect

Issue	Description
CXF-4562	Soap Fault fields precedence is incorrect
CXF-4563	Empty XML or JSON responses are not processed correctly on the client side
CXF-4564	NPE in MavenToolErrorListener during wsdl2java code generation
CXF-4565	The message flow is not correct when handler throw ProtocolException outbound
CXF-4566	StaxTransformFeature outTransformElements does not work when converting namespaces
CXF-4567	Couple error messages did not get moved to managers properties file
CXF-4569	cxm-services-wsn-core doesn't support to be installed with other verion of CXF
CXF-4570	Attachment Header Content-ID conversion
CXF-4572	GZIPOutInterceptor not negotiating first without compressing
CXF-4573	WADL to Java generator loses the namespace info for types from imported schemas
CXF-4579	Exchange's out message is not set for recovered outbound WS-RM messages
CXF-4580	InjectionUtils can not handle boolean properties with getters starting from 'is'
CXF-4581	cxm-codegen-plugin tries to generate code during m2e "configuration" build
CXF-4583	When the logical handler return false processing the outbound message, the SoapMessage's body is always empty.
CXF-4584	org.w3c.dom.DOMException when sending soap11 request and returning soap12 response
CXF-4587	Signature Confirmation does not work with TransportBinding and EndorsingSupportingToken
CXF-4591	Fix @XmlTransient handling for exception types
CXF-4592	Some tests fail when CachedOutputStream's file caching is enforced
CXF-4594	Incompatible fault type is generated in the wsdl if no setter method in Exception
CXF-4595	RequireClientCertificate is not validated

Issue	Description
CXF-4598	Error resolving inline schema references
CXF-4599	Async HTTP may fail for large data due to a file caching issue
CXF-4601	An invalid WS-RM message to a robust WS-RM endpoint may lead to NPE
CXF-4605	SortedMap is not returned when another unrelated method exists in the interface
CXF-4608	DOMSource is returned rather than StAXSource
CXF-4609	Comparison problem in ImplicitGrantService.java
CXF-4611	Set <code>jaxws.provider.interpretNullAsOneway</code> as true by default
CXF-4612	SAML assertion element is not imported into SecurityHeader document
CXF-4613	Token URI is missing ampersands
CXF-4614	Error using role, tokenService and ValidationService when initialize client AccessTokenValidation.
CXF-4615	OAuthRequestFilter.java should ignore HTTP OPTIONS verb
CXF-4616	When creating DataContentHandler, defaultCommandMap should be considered.
CXF-4618	DataSourceProvider is not closing inputstream acquired from DataSource
CXF-4620	Exception at compilation when a 'space' character is present in maven local repository path
CXF-4623	Marshalling Error during asynchronous service invocation when adding a soap header using a SOAPHandler
CXF-4630	local part cannot be "null" when creating a QName
CXF-4631	HttpUtils.toAbsoluteUri should use request.getServerPort() instead of request.getLocalPort()
CXF-4633	Redirection based OAuth services need to return an error directly to the end user
CXF-4637	Exception when validating access token on a resource server (OAuth2)
CXF-4640	@PostConstruct methods invoked twice in Spring projects when using OSGi even with fix for CXF-3959
CXF-4642	CXF feature can not be installed on Karaf 3 as it requires jetty to be below version 8

Issue	Description
CXF-4643	Initial non-GET request returns 404 if it has query parameters
CXF-4644	shouldn't have dependency='true' for saaj-impl bundle
CXF-4645	AsyncHTTPConduit does not re-use NTLM authenticated connections
CXF-4647	A wrong soap action when using ws-addressing may lead to an empty response or the fault with the wrong action
CXF-4652	Additional namespace is added when web service provider implements Provider<DOMSource>
CXF-4653	CXF continuations portability issue
CXF-4659	Policy configuration in spring cause SAXParseException if no internet connection available
CXF-4662	Jaxb data binding jaxb.scanPackages does not support Boolean object
CXF-4665	cxfr-utils.js missing from release zip file
CXF-4666	[OAuth2] securityContext problem on createSubject
CXF-4676	Partial WSDL support in CXF
CXF-4678	ConcurrentModificationException from WS-RM's RMOutInterceptor's acknowledgement update code
CXF-4679	STS onBehalfOf validation should throw exception for invalid tokens in issue operation
CXF-4680	Fault properties not ordered correctly in WSDL according to JAX-WS spec
CXF-4681	CXF karaf feature cannot pass the karaf feature validate
CXF-4683	workqueue configuration in BP does not derive the id attribute from the name attribute
CXF-4684	SOAPFault message improvement in CXF when there is unchecked NPE
CXF-4687	cxfr-codegen-plugin breaks mvn deploy when proxy exists
CXF-4689	stax outTransform feature may fail to remove the default namespace from an element
CXF-4690	stax's inTransform feature does not work with a generic provider's Source based service
CXF-4694	WS-RM is not returning a correct soap fault message to the client

Issue	Description
CXF-4695	autoRewriteSoapAddressForAllServices does not work for relative endpoint addresses
CXF-4697	IllegalArgumentException thrown if I have a MultivaluedMap parameter in multipart/mixed Content Type
CXF-4699	Schema validation on Weblogic 10.3 fails with AssertionError
CXF-4706	javax.xml.bind.UnmarshalException at server startup
CXF-4707	OasisCatalogManager throws exception with backslash URL reference to jax-ws-catalog.xml
CXF-4708	Unable to publish service when XmlAdapter has generic parameter
CXF-4711	JAXBContextInitializer addType stopped handling recursive types (StackOverflow)
CXF-4713	Method inherited from super interface can not be part of operations in wsdl
CXF-4714	CopyingOutputStream may loop in some cases
CXF-4715	WS-security encrypted elements with XPath . CXF generates wsu:Id attribute, XSD validation on Metro fails
CXF-4716	WS-security policies enforcement with CXF server, bad policy selected
CXF-4718	UsernameTokenInterceptor is not caching nonces
CXF-4720	Binary size is equal with MTOM threshold should not be sent as attachment
CXF-4723	stax outTransform may generate duplicate namespace declarations for global attributes
CXF-4725	duplicated message key found
CXF-4727	NullPointerException in org.apache.cxf.resource.ExtendedURIResolver
CXF-4728	STS KeyIdentifier AttachedReference shouldn't use a URI fragment
CXF-4730	unwanted {0} in the NO_SETTER_OR_FIELD_FOR_RESOURCE from cxf-api orgapachecxfcommoninjectionMessages.properties
CXF-4732	Wrong port address generated in wsdl when using autoRewriteSoapAddressForAllServices
CXF-4735	@XmlJavaTypeAdapter ignored on exception setters
CXF-4741	Different conduits are used when configuring stub and sending actual message

Issue	Description
CXF-4742	Not possible to disable token renewal in STS client
CXF-4745	jaxb errors when calling with @WebParam and header=true
CXF-4746	STS issues invalid SAML 1.1 Assertions under certain conditions
CXF-4750	Wrong return type for enumeration in generated service interface using xmlbeans
CXF-4752	TransformOutInterceptor does not transform SoapFaults
CXF-4753	stax outTransform cannot deep-drop an element that has some attributes
CXF-4755	StackOverflowError when ASMHelper tries to getClassCode from a parametrized type <E extends Enum>
CXF-4758	Receive error message when trying to connect to crm 2011 Webservices with https binding - javax.xml.ws.soap.SOAPFaultException: An error occurred when verifying security for the message.
CXF-4762	HTTPS does not work with asynch client unless you specify port number
CXF-4765	can't set timeout in message HTTPClientPolicy if it is not set in conduit
CXF-4766	WADL to Java generator does not strip custom regular expressions from method names
CXF-4767	JAX-RS endpoints fail to register properly with ws-discovery service
CXF-4769	Refactor STSClient
CXF-4770	When passing NULL @PathParam to JAXRS Client Proxy it now throws NullPointerException instead of IllegalArgumentException as in prior releases (2.7.0)
CXF-4771	[OAuth 2] MAC Authorization Header is not parsed correctly
CXF-4773	StackOverflowError when JAXBSchemaInitializer tries to process parametrized type Enum<E>
CXF-4774	Java First ws policy attachments are not being serialised correctly
CXF-4775	HttpHeaders.getRequestHeader splits complex header values
CXF-4781	MacAccessTokenValidator needs a setter for the nonceVerifier variable
CXF-4784	enhance CXF to follow jaxws spec 3.6.2.3 when using RI or Axis2 client

Issue	Description
CXF-4787	WADL to Java generator uses the system encoding to create the files
CXF-4789	EndorsingSupportingTokens do not respect ProtectTokens assertion from paired binding policy
CXF-4790	Set lang and subcode for soapfault
CXF-4794	Soap 1.1 service returns an invalid soap fault for soap 1.2 requests
CXF-4795	Memory leaks in CXF with spring while using WebClient APIs
CXF-4796	Accessing Conduit in JAX-RS ClientConfiguration causes NPE if failover is enabled
CXF-4797	CachedWriter may leave temp files undeleted
CXF-4803	NPE is thrown while enabling fine log level in TrustDecisionUtil if MessageTrustDecider from message context is used
CXF-4805	SOAP services try to process HTTP 'OPTIONS'
CXF-4806	When using Spring, cannot set Jetty engine connector to an instance of SslSelectChannelConnector
CXF-4810	java.beans.IntrospectionException: java.lang.Exception not superclass of java.lang.Exception
CXF-4812	NPE on MessageModelInInterceptor when sending empty SOAPBody
CXF-4813	Java First @Policy at Operation level has some issues with supporting some policy alternatives
CXF-4814	Support multiple AlgorithmSuite policy alternatives
CXF-4815	Invalid login creds will send many requests to server
CXF-4816	Allow use of @Policy on Service Implementation as alternative to Interface
CXF-4817	JAX-RS AsyncResponse implementation needs to call AsyncContext.complete after the request is done
CXF-4818	The body and header appears in reverse order for outbound soap message
CXF-4819	CXF validates soapHeaders and barfs on mustUnderstand attributes
CXF-4820	wsdl2js throws Exception

Issue	Description
CXF-4831	Support renewing SAML Tokens by default in the DefaultSecurityTokenServiceProvider
CXF-4833	IndexOutOfBoundsException when printing stacktrace for ToolException
CXF-4836	ServiceImpl getPort does not need to throw Exception if the portName can not be found in portInfos
CXF-4838	Server-side endpoint may throw an NPE when a request message arrives while the endpoint is being stopped but not yet stopped
CXF-4841	STSCClient AppliesTo is not working correctly in certain circumstances
CXF-4842	Support Claims defined in Security Policy at IssuedToken/Claims
CXF-4844	Response header Content-type not recognized for asynchronous soap/http
CXF-4847	Data types not correctly published in WSDL from Exception classes
CXF-4848	WebClient does not process GenericEntity correctly
CXF-4850	Inheritance problem : An operation with name {} already exists
CXF-4851	AttachmentDeserializer cannot handle attachments with Quoted Printable content transfer encoding in initializeRootMessage
CXF-4852	Pre-Match ContainerRequestFilter can not replace request stream and URI
CXF-4855	The server does not work with HTTP 1.0 clients (keep-alive not respected)
CXF-4856	A java.lang.NullPointerException is thrown when publishedEndpointUrl is used
CXF-4858	Maintain Session (Cookie) is not honoured when using NTLM
CXF-4860	Request.InputStream Lost
CXF-4863	TerminateSequenceResponse must be returned in reponse to WS-RM 1.1 TerminateSequence
CXF-4870	osgi field is always false when creating a SpringBus via SpringBusFactory in OSGI ENV
CXF-4872	JSONProvider can not drop a root element if DOM Document is copied to JSON
CXF-4873	javax.management.RuntimeOperationsException when register performance mbean using cxf webclient with an operation's uri containing some query params



Issue	Description
CXF-4874	Data types for Fields not correctly published in WSDL from Exception classes
CXF-4875	NPE resolving policy reference
CXF-4876	CXF RespectBinding feature does not support the customized binding info under operation and its sub element.
CXF-4877	CXF will throw javax.wsdl.WSDLException: WSDLException: faultCode=OTHER_ERROR: Can't find prefix if the SEI has Action annotation
CXF-4879	Error when http.proxy* system properties are empty
CXF-4881	Wrong set custom trace function in cxf-utils.js
CXF-4888	OAuthClientUtils ignore argument on getAccessToken()
CXF-4890	issues with spring context override properties
CXF-4891	Cannot set content-type header
CXF-4894	Passing username and password to JAXRSClientFactory does not work
CXF-4895	Changing TLS information after first call doesn't affect anything
CXF-4897	STS: check not found certificates in DefaultSubjectProvider for symmetric key type
CXF-4901	OnlySignEntireHeadersAndBody property validation doesn't check if a SOAP Body child was signed
CXF-4904	Incorrect validation of Layout LaxTimestampFirst + LaxTimestampLast
CXF-4906	Http Headers should ignore the case for "User-Agent"
CXF-4912	cxf rest client always picks the first ResponseExceptionMapper for a method with different exception throws
CXF-4914	ResponseBuilderImpl returns null on link() and links()
CXF-4918	Cannot get xsd schema file when access wsdl file as "?wsdl" with auto redirect turned on
CXF-4920	TransformationInInterceptor fails when XML contains same namespace with different prefixes
CXF-4922	NPE is thrown at EP creation when no service class is specified and the wsdl cannot be loaded

Issue	Description
CXF-4929	JAX-RS 2.0 filters do not work correctly with generic entities and annotations
CXF-4932	Illegal method arguments generated by Wadl2Java
CXF-4934	JAXRSInvoker and Proxy classes (Spring Security)
CXF-4938	Setting RuntimeDelegate instance in CXFNonSpringJaxrsServlet is too aggressive
CXF-4940	CXF not (always) responding with the correct exception when working with an exception hierarchy
CXF-4941	WS-RM related faults do not contain the correct addressing action
CXF-4944	RequestDispatcherProvider always saves request URI properties as HTTP parameters
CXF-4946	SourceGenerator needs to use URI resolve function when dealing with relative references containing parent folders
CXF-4947	Potential problems with the JAXBContext being null
CXF-4949	FIQL - searchContext returns null SearchCondition
CXF-4951	cxfr-codegen-plugin wsdlArtifact ignores classifier
CXF-4953	JAXRSClientFactoryBean doesn't take the bus features into consideration
CXF-4954	CryptoCoverageChecker prevents handling of SOAPFault-Responses
CXF-4957	remove dependency="true" for jsr339-api specs bundle
CXF-4958	jaxrs:providers tags seems to be ignored inside jaxrs:client
CXF-4960	Race conditions in SOAP/HTTP startup
CXF-4964	NPE is thrown when WS-RM's destination has no ackPolicy configured
CXF-4967	JSONProvider will throw NPE if DOM Document is used and dropRootElement and ignoreNamespaces properties are set
CXF-4969	ExceptionHandler not used for exception in resource setter
CXF-4970	cxfr servlet transport doesn't work when the endpoint deployed by using Spring within OSGi
CXF-4975	CXFNonSpringJaxrsServlet needs to ensure an optional Application path starts from "/"

Issue	Description
CXF-4977	Client for .Net WCF using both WS-Trust and WS-SecureConversation
CXF-4979	WadlGenerator generates invalid xml for QueryParameters with a default value containing " characters
CXF-4982	Codegen maven plugin fails forked execution on Windows XP environment
CXF-4983	Response.getStatusInfo does not work if the status code can not be mapped to Status enum
CXF-4985	ResponseBuilder should set 204 status if the status has not been set and the entity is null
CXF-4986	jax-rs2 request filter is unable to modify request header by adding a new header
CXF-4990	When thrown the fault from logical handle, the namespace setting doesn't work
CXF-4991	Classloading issue with EH-Cache availability checks
CXF-4992	proxy sub-resources creating wrong request URIs with non-HTTP transports
CXF-4993	LdapClaimsHandler can't find attributes if user authenticated against LDAP
CXF-4999	publishedEndpointUrl ignored when wsdlLocation not used
CXF-5000	NameBindings are ignored for Reader and Writer interceptors
CXF-5004	NPE at StaxUtils.copy for empty namespaces under JDK's XMLStreamReader
CXF-5005	Wrong EPR match in WSDiscoveryProvider::handleResolve
CXF-5009	Allow multiple subcodes in a SOAP 1.2 fault
CXF-5011	Fix NPE in WSS4JInterceptor
CXF-5012	Possible regression in the way proxies handle HTTP errors
CXF-5013	Need support for SHA256 Signature Algorithms
CXF-5014	HTTP Response headers are split by default
CXF-5016	ArithmeticException on ResponseTimeCounterMBean.getAvgResponseTime() after counter reset()
CXF-5017	CrossOriginResourceSharingFilter FIELD_COMMA_PATTERN mangles firefox headers

Issue	Description
CXF-5018	EHCache TimeToLive value overridden in EHCacheReplayCache
CXF-5020	add NPE guard when we restore original java.class.path system property
CXF-5021	Static resources need the "application/javascript" content type for javascript files
CXF-5022	Multiple JAX-RS services will start on the same address, but "last one" wins
CXF-5026	JAX-RS Async client does not work if HTTP error is returned
CXF-5027	JAX-RS XOP marshaller does not support SWA attachments
CXF-5030	Exception in opensaml initialization in OSGi: NoClassDefFoundError: org/apache/xml/security/Init
CXF-5037	DefaultSecurityContext Principal is incorrectly set from Subject
CXF-5040	support new asm4 shade of xbean
CXF-5045	UndeclaredThrowableException thrown in the client side when server responses with wsa:OnlyNonAnonymousAddressSupported soap12 version fault message
CXF-5046	EncryptedSupportingTokens used with EncryptBeforeSigning does not encrypt Username token
CXF-5047	Wrong soap:address generated in WSDL
CXF-5048	StaticSTSPProperties class requires a CXF message context to initialize using configure() method
CXF-5050	Already connected exception when using CXF client to invoke to the server
CXF-5056	EndorsingSupportingTokens with both transport security and message layer security applied
CXF-5057	NPE at the decoupled endpoint when receiving a response message with an unknown identifier
CXF-5059	Refine classloader in org.apache.cxf.wsdl11.WSDLManagerImpl
CXF-5061	Invalid WSDL generated for List of Complex Type
CXF-5063	When using AsyncHttpConduit with a certificate alias CXF hangs after a bunch of requests
CXF-5064	XmlJavaTypeAdapter ignored on SOAP Headers

Issue	Description
CXF-5065	Subresource operations do not see root resource Produces or Consumes annotations
CXF-5066	Annotation inheritance does not work if a non JAX-RS annotation is present on an implementation method
CXF-5067	CXF JAX-RS reports 'localhost' to remote clients after an initial local access
CXF-5068	Getting a cached base url from UriInfo object
CXF-5070	CDATA sections are not taken into account by wsdl2java but are by xjc
CXF-5071	Async Http transport: Injecting an sslSocketFactory in the tlsClientParameters has no effect
CXF-5073	endless recursion in creating JAX-RS client proxy
CXF-5078	WSDLGetInterceptor holds a lock for too long
CXF-5082	JAX-RS frontend has non-optional dependency on blueprint
CXF-5084	URIBuilder optimization prevents relative paths that startWith "h" "t" "t" "p"
CXF-5086	JSONProvider can not read explicit collections if unmarshallAsJaxbElement property is set
CXF-5087	ThreadLocal: BusFactory.threadBus is never removed, generates permgen out of memory error after some redeployments
CXF-5089	java2ws generate both ref and nillabe attributes in a schema element
CXF-5092	RequestTokenService signature verification bug [OAuthUtils]
CXF-5093	HTTPConduit prevents AsyncConduit from sending the payloads when custom HTTP methods are used
CXF-5095	Allow adding attachments to the context using jaxws attachments
CXF-5098	References to Kerberos Tokens are not created correctly in responses
CXF-5099	Optional extensions that refer to classes that cannot be found are not treated as optional
CXF-5100	JAXB-based providers fail when they try to set JAXB RI-specific properties on non-RI implementations
CXF-5102	schema resource loading code in various blueprint namespace handlers not working in some environment

Issue	Description
CXF-5104	JAX-RS not injecting contexts after resuming a suspended continuation
CXF-5108	parameter beans feature not working through dynamic proxy based clients for JAXRS
CXF-5110	Wrong processing of @XmlJavaTypeAdapter with RPC style endpoints
CXF-5111	JAX-RS providers typed on arrays like String[] are not selected
CXF-5112	OAuthUtils causes IllegalArgumentException when returning 400 instead of 401
CXF-5113	leading spaces in karaf features.xml bundle elements lead to errors when using karaf 3.0.0
CXF-5114	CXF Client issue when try to handle session for One-Way Operation call
CXF-5115	Primitive arrays for capturing HTTP parameters are not supported
CXF-5116	DelegatingInputStream created in AbstractHTTPDestination is cached into wrong Message instance
CXF-5119	jetty endpoint may log exception when it is assigned to a non-default cxf bus in spring beans
CXF-5126	Creation of SecurityContext from JAAS Subject causes incorrect Principal for Kerberos authentication
CXF-5129	Content type is always "text/xml" in case of using @Context HttpServletResponse response
CXF-5133	CXF STS renewed token not itself renewable.
CXF-5143	http-conf:server blueprint configuration doesn't work
CXF-5144	JAX-RS Client Proxy-based API connection leak
CXF-5146	JAX-RS client proxies do not unwrap TypeVariables
CXF-5147	NPE setting OUT param Holder to null
CXF-5154	PEP only sends Operation Namespace + Name to the PDP
CXF-5157	JAXRS JAASAuthenticationFilter not rfc2617 compliant for WWW-Authenticate realms
CXF-5161	AbstranctGrantHandler checks against "authorization_code" instead of supplied grant type

Issue	Description
CXF-5164	Wrong class name in LogUtils.getLogL7dLogger() of org.apache.cxf.aegis.databinding.XMLStreamDataWriter class
CXF-5166	Regression: Incompatibility with WAS JAXB 2.2
CXF-5167	HEAD operation implementation is not compliant with specification
CXF-5176	Aegis inheritance: inherited xml attributes appear twice
CXF-5178	SOAP rpc/lit in/out headers aren't working for output from server
CXF-5181	Blueprint start delays with policy fragments
CXF-5184	javax.ws.rs.NotFoundException while using LoadDistributorFeature after failover of 1st node or with single node configured
CXF-5185	Memory leak if no addresses are specified for SequentialStrategy
CXF-5186	SOAP 1.2 fault reason xml:lang attribute not properly parsed on client side
CXF-5188	Leaks in ServiceImpl when stopping/restarting bundles
CXF-5189	Java transient modifier is ignored by JAXB databinding
CXF-5190	Robus one-way not always working
CXF-5191	StaxUtils readQName does not accept leading and trailing whitespaces
CXF-5194	SoapHeaderInterceptor fails to validate SOAP header
CXF-5195	Wrong schema may be returned from LSResourceResolver.resolveResource() with null system ID
CXF-5196	Failover feature doesn't work when client uses async invocation
CXF-5197	No Java extensionType found to represent {http://www.w3.org/2006/05/addressing/wsdl}UsingAddressing
CXF-5198	FiqlParser fails to parse an expression with camel case when SearchBean is used
CXF-5199	Using an EncryptBeforeSigning policy with no EncryptedParts/Elements results in no Signature in the request
CXF-5201	jaxrs2: unable to intercept response to add new response headers

Issue	Description
CXF-5202	Missing some default value in the blueprint xml of XKMS osgi bundle
CXF-5204	JAX-RS runtime checks TypeVariable bounds too early
CXF-5205	Client SSL Cache Timeout default is specified in milliseconds rather than seconds
CXF-5206	Update Jetty to the latest 8.x release for the next CXF 2.7.x
CXF-5214	Using BeanParam in a subresource results in exception
CXF-5215	-Psetup.eclipse fails on Windows
CXF-5217	namespace should be null when we can not find related schema
CXF-5218	WS-RM's destination's fault handling should distinguish protocol related faults from other faults
CXF-5219	@XmlJavaTypeAdapter ignored for exception members
CXF-5225	client.getConduit() does not set enough properties on message passed to ConduitSelector
CXF-5226	OAuth public clients don't appear to work in RedirectionGrantServices
CXF-5228	Rest client reports interface not visible for service interface
CXF-5230	Message element is not generated for Exception class
CXF-5231	NoSuchElementException in ClientFaultConverter when stack trace message contains line breaks
CXF-5232	CXF unable to resolve wsdl when XLST Transformation applied
CXF-5233	JMS Transport with Topic for Requests is not working if Response is required
CXF-5234	Simple Frontend Client Proxy does not work with Blueprint
CXF-5237	Schema validation doesn't work in mtom enabled provider service
CXF-5240	Jsonp interceptors do not work with GZIPOutInterceptor
CXF-5241	No way to disable chunking with hc based transport
CXF-5242	JMS Topic based replies can lose messages
CXF-5243	JAX-RS 2.0 ContainerRequestContext#getEntityStream() doesn't return request payload



Issue	Description
CXF-5244	It is not possible to update Content-Type inside JAX-RS 2.0 ContainerRequestFilter
CXF-5245	JAXRS SpringResourceFactory does not work correctly with lifecycle methods
CXF-5246	Conflicting schema namespaces for services with same set of schema classes
CXF-5247	JAXRS proxies do not work with BeanParams
CXF-5248	Signed SAML assertion validation error w/ SupportingTokens only policy
CXF-5249	JAX-RS 2.0 ContainerRequestContext#getMethod() doesn't return request HTTP-method
CXF-5250	Too long the cer file name generated by XKMS service
CXF-5254	Unmarshall exception if a sequence<string> is used in a struct.
CXF-5257	cxfrt-transport-jms jms expiration is not set in JMSUtils.setJMSMessageHeaderProperties()
CXF-5258	Return type list of a typed type, e.g. List<Type<Typee>>, leads to ClassCastException
CXF-5259	XKMS client does not start in Eclipse RCP
CXF-5260	XKMS-client should not contain CryptoProviderFactory interface
CXF-5262	ReaderInterceptor and WriterInterceptor contexts should select new MBR or MBW when possible
CXF-5265	Netty Http transport can handler ?wsdl request rightly
CXF-5268	Automatic WS-Policy computation should be possible on Dispatch clients without setting operation manually
CXF-5270	XKMS Crypto Client does not check local keystore for "locate" if the alias is actually a Subject DN
CXF-5271	Event.CLIENT_CREATED fired too soon
CXF-5272	NPE will cause the camel-cxf endpoint start error in blueprint
CXF-5276	TransformOutInterceptor needs to ignore messages with transform.skip property set
CXF-5278	STS Renew returns incorrect lifetime
CXF-5280	wsdl2java may fail to extract the wsma:Action attribute value

Issue	Description
CXF-5284	CXF clients do not work in Eclipse RCP: Exception says BindingProvider interface not visible
CXF-5285	java.lang.UnsupportedOperationException in org.apache.cxf.jaxrs.model.wadl.WadlGenerator
CXF-5286	Lengthy done-file names raise mojo exception
CXF-5287	NPE at org.apache.cxf.maven_plugin.ClassLoaderSwitcher.restoreClassLoader
CXF-5289	WADLGenerator misses Description annotations if they are bound to interfaces
CXF-5294	XMLFaultOutInterceptor only marshals first detail element
CXF-5296	OAuth2ClientUtils can not get access token if custom params contain semicolon or no token_type param is available
CXF-5299	FiqlParser fails to parse an expression with child properties when SearchBean is used
CXF-5305	STSCClient does not send Renewing element in renewal RequestSecurityToken message
CXF-5306	Soap body in header
CXF-5307	Add DecoupledFaultHandler for request-response message when decoupled fault is supported
CXF-5316	REST Overriding request URI doesn't change serviceBeans
CXF-5326	Hardcoded reference to com.ibm.wsdl.util.xml.DOMUtils
CXF-5328	JAX-RS ProviderFactory ignores MBR/MBW typed on Object for primitive arrays
CXF-5331	Permission and Property are missing Serializable interface
CXF-5334	WSDL Resolution Problem with SOAP 1.2
CXF-5335	Incorrect handle of ws-policy 1.1 (Incorrect inclusion value: null)
CXF-5336	WADLGenerator does not support XmlType, does not link JSON and misses package info for collections
CXF-5337	HTTPConduit blocks DELETE with body
CXF-5340	IDLToWSDL crashes with certain idl constructs

Issue	Description
CXF-5341	NPE in org.apache.cxf.jaxws.support.JaxWsEndpointImpl.checkRespectBindingFeature
CXF-5343	ClientRequestFilterInterceptor uses a wrong phase
CXF-5346	Shared filters registered through DynamicFeature are not considered
CXF-5347	Request routing is broken when the URL contains both jsessionid and an extension
CXF-5348	Exception mappers implementing ExceptionMapper through an abstract class are not mapped to the declared exception
CXF-5354	faultTo address is ignored when fault is thrown
CXF-5357	CORBA binding corrupts byte arrays
CXF-5359	xkms.endpoint property change will not take effect automatically
CXF-5361	Attachments iterator may incorrectly handle its remove operation
CXF-5365	2.7.7 schema validation seems broken
CXF-5366	Authorization header is not set correctly in CXF HTTP digest authentication
CXF-5367	2.7.7 schema validation incorrectly detects schema include recursion
CXF-5368	filename with ";" in file upload throws StringIndexOutOfBoundsException
CXF-5370	Refactor STS logging to split mapping from log writing
CXF-5371	JAXRSInInterceptor expects JAXRSInvoker to block if Response is already available
CXF-5372	ServerEngineFactoryHolder should release JAXB classes when it is destroyed
CXF-5373	Issue resolving AsynchResponse
CXF-5377	LoggingInInterceptor is not logging the URL for SOAP or REST non-HTTP requests
CXF-5378	CXF failover feature doesn't work in osgi
CXF-5381	SAAJStreamWriter transforms DigestValue of custom signature
CXF-5383	Trailing semi-colon in Content-Type line of header for MTOM attachments.
CXF-5384	AccessTokenGrant should extend Serializable

Issue	Description
CXF-5385	CXF 2.7.7 on Websphere 8.5.0 is not able to generate WADL.
CXF-5386	Multipart params of type InputStream don't show in generated WADL
CXF-5390	AbstractSamlBase64InHandler goes into infinite loop when processing bad header value.
CXF-5391	Response code is not logged for SOAP responses
CXF-5392	Custom Marshalling Validation Event Handler
CXF-5394	ImplicitGrantService always redirect to broken redirect url
CXF-5396	AbstractGrant.toMap hardcode the grandType to Client_Credentials
CXF-5404	NPE in AtomPojoProvider when no content (or content is empty)
CXF-5405	WS-RM with anonymous endpoint throwing security policy validation exception for SequenceAck
CXF-5406	ClassCastException in AtomPojoProvider when an Atom entry is returned with a media-type of application/atom+xml (no type parameter)
CXF-5412	Big CXF Bundles have truncated Export-Package instruction
CXF-5414	XMLStreamException when using Continuations in versions > 2.7.0
CXF-5415	javax.management.RuntimeOperationsException when register performance mbean using cxf webclient with service name contains ?
CXF-5420	Issue with EhCacheTokenStore using default LRU.
CXF-5421	Servlet dependency in OAuth2 pom.xml should be with scope "provided"
CXF-5423	Callbackhandlers and other resources aren't found if configured in blueprint config due to classloading issues
CXF-5426	JAX-RS 2.0 Response.readEntity fails to read primitive values
CXF-5427	set-jaxb-validation-event-handler=false not working when fault message is changed.
CXF-5433	JAX-RS method invocation failes in case @Mutipart(required=false) is used on primitives
CXF-5434	IllegalStateException calling Oneway method using JMS and WSA

Issue	Description
CXF-5435	WS-RM's retransmission should call <code>conduit.close(message)</code> after successful retransmission
CXF-5437	JAXBDataBinding can not handle the exception with generic objects like <code>ObjectWithGenerics&lt;Boolean, Integer&gt;</code>
CXF-5442	CXFAuthenticator causes classloader leaks
CXF-5445	IgnoreNamespacesWriter does not handle qualified attributes
CXF-5446	systemstests/jaxrs tests sometimes hang in CI
CXF-5447	IllegalStateException: Already connected when sending empty POST request
CXF-5449	FIQL parser having a problem with a JPA entity that contains a list of other entities.
CXF-5450	With SAAJ In/Out forwarding, headers can cause an infinite loop and OOM
CXF-5452	JAX-RS Client: post method call doesn't send data.
CXF-5453	FIQL parser should support Beans with interfaces
CXF-5454	Latest Jetty doesn't like the <code>-D jvmargs</code> added to generated build.xml
CXF-5455	Generated servers only use first port impl
CXF-5458	<code>sts.token.validator.*TokenValidator</code> instances don't set <code>MessageContext</code> on <code>RequestData</code>
CXF-5459	Some imported xsd schemas are not resolved in spring when referenced from another schema
CXF-5465	<code>policy.xsd</code> used in <code>rt-ws-policy</code> 's blueprint configuration is inconsistent
CXF-5469	<code>JsonpInInterceptor</code> casts to <code>HttpServletRequest</code>
CXF-5473	JAX-RS schema validation: interpret schema loading problems as exceptions instead warnings
CXF-5476	NPE while trying to create a dispatch for SOAP service without port address specified in WSDL
CXF-5480	Element Id not unique in <code>AbstractBindingBuilder</code>
CXF-5484	<code>JAASAuthenticationFilter</code> cannot separate 3rdParty <code>java.security.Principals</code> based on user/role

Issue	Description
CXF-5491	cxfruntime 2.7.7 without the internet will throw Socket exception and wouldn't launch
CXF-5493	SOAPFaultException has empty message in case of response containing CDATA in fault:faultstring (SOAP 1.1)
CXF-5494	WADL to Java code generator can get element names with '-' added to Java method names
CXF-5497	STSCClient is not sending a KeySize for SecureConversation in every circumstance
CXF-5498	W3CDOMStreamReader does not check the DOM-Level in all Cases
CXF-5500	FINE logging could result in OOM
CXF-5503	SAML 2.0 SenderVouches / IssuedToken policy bug
CXF-5505	SpringBus should shutdown the bus when the application context is closed
CXF-5506	Make ws-addressing schema available during blueprint schema resolution
CXF-5507	Missing alternativeSelector handling in ws-policy feature's blueprint configuration
CXF-5508	Request.evaluatePreconditions(Date, EntityTag) loses a non-null ResponseBuilder
CXF-5512	@UseAsyncMethod annotation doesn't work for classes implementing Provider<T>
CXF-5516	Decoupled endpoints are not compatible with @UseAsyncMethod annotation
CXF-5517	Incorrect check for VOID type
CXF-5518	Setting SecurityConstants.STS_TOKEN_ACT_AS as string improper handling
CXF-5520	Setting SecurityConstants.STS_TOKEN_ON_BEHALF_OF as string improper handling
CXF-5523	Allow override of DestinationRegistryImpl#getTrimmedPath method
CXF-5524	JAXBContextInitializer addType stopped handling recursive types (StackOverflow)
CXF-5526	Unresolvable transitive dependencies from Karaf
CXF-5527	SAAJ API's can corrupt messages
CXF-5528	CXF Blueprint resource classes should have a more simple definition
CXF-5529	Deploy error when publishing CXF WebService to Glassfish4

Issue	Description
CXF-5530	Wrong error code for non existing client's
CXF-5532	jax-ws-catalog.xml / @SchemaValidation / xsd-includes
CXF-5534	ProviderFactory returns incorrect ExceptionMapper when no exact match is registered
CXF-5542	JAX-RS providers shared between endpoints or clients with different buses lose injected TL proxies
CXF-5547	HTTPConduit loses response headers if 202 with no body is returned
ENTESB-1001	cxf-http-netty and camel-http-netty is using different version of netty
ENTESB-1038	CXF Tests sometimes hang in systests/jaxrs
ENTESB-1085	Cannot access Apache CXF kit bin directory
ENTESB-1122	CXF has multiple test failures on Hudson
ENTESB-1328	[CXF] No SoapFault on one-way web service operations
ENTESB-752	CXF examples pom version are not updated
ENTESB-844	CXF can't be installed - duplicate imports
ENTESB-917	cxf-2.7.0.redhat-6-1-x-stable AsyncHTTPConduitTest may be hanging on Ubuntu JDK6
ENTESB-923	cxf-2.7.0.redhat-6-1-x-stable AutomaticWorkQueueTest fails intermittently on slower platforms
ENTESB-941	error when install cxf-wsn feature
SF-450	After re-installation of the bundle with netty cxf and blueprint ?wsdl is not accessible
SF-468	getJSONSchema() returns bad JSON
SF-469	getJSONSchema() should honor multiple methods in the service model
SF-470	JsonSchemaLookup should use a neat way to handle the case that can't find the json schema for a given class
SF-473	cxf-java2wadl-plugin throw NPE when the resource class has @Resource annotation
SF-475	JAASAuthenticationFilter cannot separate 3rdParty java.security.Principals based on user/role

Issue	Description
SF-478	Shutdown the thread pool when the application is shutdown in netty-http-transport-server
SF-479	cxfr-http-netty-client manages the worker and boss executor in NettyHttpConduitFactory

### 3.5. CONTAINER

Table 3.5, “Container Issues Resolved in 6.1” lists the issues resolved in version 6.1.

**Table 3.5. Container Issues Resolved in 6.1**

Issue Number	Description
ARIES-1019	JPA weaving hook must be called before proxy weaving hook.
ARIES-1024	SingleServiceTracker fails to track services properly when using a filter
ARIES-1026	JPA Temporary classloader cannot traverse the OSGi ClassLoader Graph
ARIES-1031	BlueprintExtender unnecessarily shutting down
ARIES-1055	Allow use of custom namespaces in blueprint-noosgi
ARIES-1064	Advertise blueprint extender capability as defined in the OSGi enterprise r5 spec
ARIES-1070	Provide a correct JDBC wrapping for XA data sources
ARIES-1090	ABBA deadlock in BP container between BlueprintContainerImpl and ReferenceRecipe
ARIES-896	Deadlock with blueprint services
ARIES-958	BundleManifest.fromBundle(IFile) fails to parse OSGI headers when bundle manifest contains Name header.
ARIES-976	BlueprintContainerImpl swallowing NPE prevents error being logged
ENTESB-1072	ASMMultiBundleTest.multiBundleTest fails intermittently
ENTESB-1073	org.apache.aries.blueprint.itests.BlueprintMBeanTest.BlueprintSample fails intermittently
ENTESB-1080	org.apache.aries.blueprint.itests.QuiesceBlueprintTest.testBasicQuiesceEmptyCounter fails on windows
ENTESB-1135	Aries JPA builds on Hudson fail because of large log files



Issue Number	Description
ENTESB-1347	aries-transaction-1.0.1.redhat-6-1-x-stable-platform has 14 test failures on multiple platforms
ENTESB-1348	aries-blueprint-1.0.1.redhat-6-1-x-stable-checkin BlueprintContainerBTCustomizerTest.test tails
ENTESB-896	aries-blueprint-1.0.1.redhat-6-1-x-stable-checkin TestRegistrationListener.testWithAutoExportEnabled() fails
ENTESB-897	aries-jmx-1.0.1.redhat-6-1-x builds have 4 test failures
ENTESB-906	aries-jmx-1.0.1.redhat-6-1-x-stable BlueprintMBeanTest.BlueprintSample test fails
ENTESB-1134	Felix SCR RegistrationManagerTest.testRegistrationManager fails on Windows
ENTESB-930	Warnings from Karaf webconsole
FELIX-1131	ServiceReference.isAssignableTo fails when using a factory that can not see the exported class and the bundle exporting the service does not have a direct wire to this class
FELIX-4190	The framework should not hold any lock while calling ServiceFactory#unget
FELIX-4309	SCR leaves some components in DISABLED state
FELIX-4313	Bad synchronization in scr where a lock is held while ungetting a service
FELIX-4322	[DS] Prevent activation attempts until all dependency managers are set up with trackers
FELIX-4323	[DS] ScrService.getComponent may return a null array element
FELIX-4326	Possible Invalid BundleContext exception when shutting down the extender
FELIX-4336	The use of inheritable thread locals in ThreadIO can cause problems
FELIX-4341	The Properties object does not follow the spec wrt spaces
FELIX-4342	Substitution is dependent on the order of the map
FELIX-4348	[DS] locateService calls race with component reconfiguration
FELIX-4349	Synchronization issue in ComponentRegistry
FELIX-4350	Component wrongly activated

### 3.6. FUSE FABRIC

Table 3.6, “Fuse Fabric Issues Resolved in 6.1” lists the issues resolved in version 6.1.

**Table 3.6. Fuse Fabric Issues Resolved in 6.1**

Issue Number	Description
FABRIC-16	Fabric camel endpoint cannot be reconnected to zookeeper node after an update of the bundle (session is expired)
FABRIC-26	java.lang.NoSuchMethodError: javax.xml.stream.XMLOutputFactory.newFactory()Ljavax/xml/stream/XMLOutputFactory;
FABRIC-27	Camel route cannot retrieve reference of a DOSGI service - waiting for dependencies
FABRIC-138	Zookeeper connection loss handling
FABRIC-298	Tar command not available on Solaris
FABRIC-352	The installation path for a remote ssh container is ignored
FABRIC-363	Version create and update does not properly propagate entries in the registry.
FABRIC-365	Modifying the ensemble will not work if the version of the containers has changed.
FABRIC-371	Fabric default profile lock status change causes fabric to show locked and true as parents and these cannot be removed.
FABRIC-397	Unable to provision FAB on remote fabric container
FABRIC-398	Features Repository not able to be resolved
FABRIC-426	CR1: Branding is not propagated to child containers
FABRIC-431	Creating child container with id starting with -- due mistyped command
FABRIC-432	fabric-zookeeper-spring bundle should just exports the package of "org.fusesource.fabric.zookeeper.spring"
FABRIC-441	Unable to start remote ssh container in JBoss Fuse 6.0 unless telnet is installed
FABRIC-448	fabric:export not exporting all profiles
FABRIC-461	features:listepositories command fails with null pointer exception on Fabric Managed container.
FABRIC-462	profile-edit command does not respect the default version.
FABRIC-466	camel-fabric - Routing to non existing fabric name discards message - should throw exception instead

Issue Number	Description
FABRIC-467	Using the Java Service Wrapper with the root fabric container appears to prevent child containers from creating a log
FABRIC-474	Zookeeper session leak causing system to be unusable
FABRIC-476	container-create-ssh command hangs w/ Windows, Kerberos authentication and versions of sshd-core > 0.6
FABRIC-477	In some edge cases profiles are getting lost
FABRIC-480	Fabric ensemble-password command mentions non-existent command ensemble-create in it's help which should be removed.
FABRIC-481	Profile delete, will only delete the profile, but will not remove it from any container it has been assigned
FABRIC-485	a-mq distro repeatedly logging ZK connection errors but is not part of a Fabric cluster.
FABRIC-486	[a-mq distro] Exceptions during 'fabric:create -p fmc'
FABRIC-487	inconsistent fabric:container-create-child behaviour
FABRIC-488	Seeing repeated 'java.lang.IllegalStateException: Committed' errors after running 'fabric:create -p fmc' in the 'a-mq'distro
FABRIC-489	Can not change the Jetty port with fabric (activemq web console displays 404)
FABRIC-490	Creating remote containers may hung forever
FABRIC-492	Fabric only installs the latest version of a feature
FABRIC-493	Fabric will hung of a long time if it tries to update core parts of itself
FABRIC-497	fabric:profile-refresh does not work as expected.
FABRIC-503	ClassCastException: sun.misc.Launcher\$AppClassLoader cannot be cast to org.osgi.framework.BundleReference
FABRIC-531	Fabric cloud firewall management is broken
FABRIC-532	Provide a way to distinguish between out-of-the-box profiles and user created profiles
FABRIC-539	PaxExam based fabric tests don't write meaningful karaf.log
FABRIC-545	profile-edit --import-pid should ignore file.install.filename property

Issue Number	Description
FABRIC-548	Uploading artifacts to the fabric maven proxy is broken
FABRIC-550	Fabric DOSGi is broken
FABRIC-551	Unable to provision container using a single profile when using the warref protocol
FABRIC-552	adding a "--force" option to the start/stop container command in case mismatch between JVM lifecycle and container lifecycle
FABRIC-555	Messaging crashes VM by creating large number of threads
FABRIC-559	CreationStateListener is ignore in all container options classes.
FABRIC-561	can't start fabric-core-agent-ssh bundle due to miss OSGi service org.fusesource.fabric.api.FabricService
FABRIC-564	Webapp and Servlet registered URLs should respect resolver changes.
FABRIC-565	The Zookeeper Login Module should not be activate if fabric is not ready.
FABRIC-566	Shell is restarted after fabric:create and also installing some features
FABRIC-567	Can't create fabric on AIX7 server
FABRIC-568	profile "karaf" binds jolokia to 8080 port
FABRIC-569	Fuse Fabric silently drops DOSGi messages
FABRIC-570	Align zookeeper acls with curator
FABRIC-572	Some profiles fail to provision; eg example-camel-fabric
FABRIC-573	Fabric allows for a remote root container to be deleted even if child containers exist
FABRIC-575	fabric:profile-refresh causes NumberFormatException when connecting using a repo url that has username/password encoded.
FABRIC-576	JMX domains don't seem to be updated after a container is created
FABRIC-577	Container.isEnsembleServer() also returns true for containers that aren't running a zookeeper server
FABRIC-579	Unable to start remote child containers after the remote root container has been patched
FABRIC-580	Can't delete configuration files via the fabric API

Issue Number	Description
FABRIC-581	Can't change a profile's parents
FABRIC-583	FuseMQ status is incorrectly reporting that MQ is running
FABRIC-585	NPE when importing properties into Fabric using --properties flag
FABRIC-587	Problem using the the profile:edit command and built in fabric editor
FABRIC-588	Using fabric:ensemble-add (or ensemble-add) and removing is not always working
FABRIC-591	fabric:create command does not validate the --profile option
FABRIC-593	Provisioning a profile stalls at "Installing" state forever
FABRIC-594	Camel Crypto Jars in Fabric
FABRIC-595	Restore the separation of 'all' and 'release' profiles
FABRIC-598	Re-deployment of jboss-fuse-full leads to OOM: Permgen
FABRIC-602	Location of broker configuration not updated when creating a new profile version in Fabric
FABRIC-603	profile-display output doesn't show all of the files
FABRIC-604	SCR 1.8.0.redhat-610117 does not make its sources available
FABRIC-605	fabric:create --clean is broken
FABRIC-607	Zookeeper session leak causing system to be unusable (6.0 and 7.1 fix)
FABRIC-609	Deadlock on OpenShift while accessing git
FABRIC-610	Pax web does not start on managed containers on openshift
FABRIC-613	No space left on device 107.21.154.172
FABRIC-618	Fabric smoke tests create large nexus-maven-repository-index files in /tmp
FABRIC-626	Calls to datastore setConfigurations will delete non property file configurations
FABRIC-627	fabric:container-create-child no longer prompts for jmx credentials if there is an auth failure.
FABRIC-631	fuse-deploy job may deploy invalid artefacts
FABRIC-632	Cannot download scriptengines-jruby

Issue Number	Description
FABRIC-633	fabric:create takes long time - approximately 3-4 min
FABRIC-634	getProfileFeatures() JMX API blocking indefinitely
FABRIC-635	Build contains diverging versions of org.apache.felix.utils
FABRIC-650	GitDataStore timing issues
FABRIC-651	Remove JBoss A-MQ Fabric stuff from the default build
FABRIC-656	profile-edit command doesn't properly support deleting pids and pid keys.
FABRIC-659	Git DataStore sends more change notifications than it actually needs to.
FABRIC-693	Component activation may expect Map<String, String> but gets Map<String, ?>
FABRIC-694	Revisit ZooKeeperBootstrap handling
FABRIC-695	Git server may fail to start due to scr issues.
FABRIC-696	ZooKeeperGroup may leave behind zk entries completely breaking master election
FABRIC-697	Adding containers to ensemble second time after removing it from ensemble is broken
FABRIC-699	Http calls inside openshift get redirected to https or even to a different host
FABRIC-711	fabric:cluster-list completer is not really helpful
FABRIC-713	Cannot build fabric-openshift due to missing openshift-java-client
FABRIC-714	Fuse ESB does not build with clean repository
FABRIC-744	Can't access the git servlet
FABRIC-749	NoSuchMethodError: org.apache.felix.utils.properties.Properties.setProperty
FABRIC-751	TreeCache error when creating a container, unable to create any more containers afterwards
FABRIC-754	Can't create child container via JMX
FABRIC-755	Cannot provision child container reliably
FABRIC-767	Comments are removed from fabric property files when a feature is added to the profile

Issue Number	Description
FABRIC-772	Restructure smoke tests to cover functional minimum
FABRIC-782	Newly created apps in OpenShift don't connect to the fabric
FABRIC-785	Occasionally not all blueprints installed from profile
FABRIC-787	Logging out fuse-fabric - io.fabric8.api.scr.InvalidComponentException
FABRIC-790	Provisioning failure when using profile:xxx references
FABRIC-792	Regression on handling of missing profiles
FABRIC-793	JBoss Fuse fails to build/run on jdk6
FABRIC-794	(fabric:create -n) fabric is not exposing service URL visible in cluster-list
FABRIC-795	java.lang.ArrayIndexOutOfBoundsException in normalizePropertyName
FABRIC-802	Erratic behaviour of the management console after creation in OpenShift
FABRIC-803	Custom Repository configuration not picked up
FABRIC-804	JMX user/password entered when creating new container has no effect
FABRIC-810	Error starting container after creating it
FABRIC-811	Delete container is a bit too easy
FABRIC-814	PaxExam may run test before support bundles are installed
FABRIC-815	Build fails because of missing hawtio-git-1.2-M-redhat-319
FABRIC-816	Import with verbose output doesn't work
FABRIC-821	perfectus build doesn't deploy quickstarts builds to nexus by default
FABRIC-822	Cannot create child container repeatedly
FABRIC-823	CreateEnsembleOptions do not support --clean option
FABRIC-824	Default runtime properties not thread safe
FABRIC-825	Invalid usage of ServiceProxy in test support classes
FABRIC-826	Boot commands do not have abstract component semantics

Issue Number	Description
FABRIC-848	Invalid child container builder API
FABRIC-852	Can't create fabric on windows server 2012 R2
FABRIC-858	Fabric container - Can neither start nor stop it - The container is rouge
FABRIC-861	version-delete returns a TODO, as does the fabric JMX API equivalent
FABRIC-863	Creating child containers does not allow correct pax-web port
FABRIC-868	Getting "No commit message" log statements when reverting a change in hawtio, even though a commit message is being set
FABRIC-869	Creating fuse on openshift online does not work
FABRIC-870	Fuse on OpenShift - Cannot stop containers
FABRIC-875	fabric:crypt-password-set won't set password
FABRIC-876	fabric:crypt-algorithm-set won't set algorithm
FABRIC-877	ServiceLocator leaks ServiceListener
FABRIC-879	Cannot connect to created ssh container with --ensemble-server option
FABRIC-882	Fuse cannot login user on openshift
FABRIC-887	Changing profile on container may cause fabric-git to fail and the container hangs in switching profile state
FABRIC-888	Login data not available on fabric auto create
FABRIC-889	Replace pom.version with project.version
FABRIC-890	Error creating fabric on latest code from master
FABRIC-891	Curator startup may fail with exception silently ignored
FABRIC-894	Fabric fails to create because Git repository already exists
FABRIC-897	Openshift Container Provider always points to the master branch of the cartridge
FABRIC-899	Copy profile does not copy all files - such as other resources
FABRIC-907	Boot commands do not respect RuntimeProperties



Issue Number	Description
FABRIC-909	ManagedCuratorFramework doesn't properly check when restart is required
FABRIC-928	Inconsistency in DynamicReference
FABRIC-935	Placeholder Resolvers may not be available in time
FABRIC-936	Child container logs are not retained
FABRIC-937	fabric8-maven-plugin fails to build on jdk6
FABRIC-942	Fabric container provision status is "downloading" in an env without internet access
FABRIC-947	Creating fabric in offline does not work
FABRIC-948	Unable to provision fabric container in a clean offline environment
FABRIC-956	Possible race when using fabric:join
FABRIC-957	build 366 doesn't seem to work any more on windows
FABRIC-958	Can't create Fabric on Windows (IPv6 issue)
FABRIC-959	Password encryption causes race and inconsistent data
FABRIC-969	fabric:version-delete command does not work
FABRIC-984	updates to profile files are no longer reflected in running containers

## CHAPTER 4. ENHANCEMENTS

### 4.1. ESB

Table 4.1, “ESB Enhancements in 6.1” lists the enhancements in version 6.1.

**Table 4.1. ESB Enhancements in 6.1**

Enhancement	Description
ENTESB-663	If the install path contains a space no features are available
ENTESB-736	Provide a parent pom aligned with JBoss Fuse versions for user projects
ENTESB-747	add EnableCORSInterceptor for soap example
ENTESB-761	ActiveMQ Web Console credentials should be configured in etc/org.apache.activemq.webconsole.cfg
ENTESB-818	Provide support for Quartz 2.x in JBoss Fuse
ENTESB-826	Add EA repo to archetypes
ENTESB-870	Avoid nasty ObjectAlreadyExists exception for Jetty MBean when using CXF in JBoss Fuse
ENTESB-908	Provide a mechanism to disable the history in karaf console
ENTESB-947	provide a configurable way to specify the container RolePrincipal classname when expose NMR DefaultAuthorizationEntry as OSGi service
ENTESB-948	Switch to using plain OSGi bundles for examples
ENTESB-961	jboss-fuse - extras with Apache Camel included - Allow to run examples
ENTESB-963	Add README file to system directory - like we have in the others
ENTESB-964	jboss-fuse - quickstart readme.md files does not substitute version number
ENTESB-965	jboss-fuse - FMC / hawtio - When smaller screen the sub tabs dont position nicely in 2nd row
ENTESB-966	jboss-fuse - FMC first screen you see says - Welcome to hawtio
ENTESB-981	rest quickstart - Logs to System.out - should use logger instead
ENTESB-990	Autodetect and autosest the correct saaj factories when running under the ibm jvm

Enhancement	Description
ENTESB-1026	add java2ws-plugin to soap secure-soap quickstart to demonstrate how to generate/deploy wsdl from the SOAP endpoint
ENTESB-1033	profile:refresh command for the FMC
ENTESB-1034	add java2wadl-plugin to rest secure-rest quickstart to demonstrate how to generate/deploy wadl from the REST endpoint
ENTESB-1066	enhance rest quickstarts to support json payload
ENTESB-1265	Improve patch process so new features installed get the patched jars
ENTESB-699	Blueprint Property support on OSGi service reference filter attribute
ENTESB-717	Add Fuse CDC to JBoss Fuse
ENTESB-755	Extend LDAPLoginModule to
ENTESB-798	Create a Fuse cartridge for OpenShift
ENTESB-989	introduce cxf swagger feature
ENTESB-1018	offer Karaf commands to camel:suspend_route and camel:resume_route
ENTESB-1028	Starting JBoss Fuse for the first time - wizard to create admin user
ENTESB-1031	Improve patch functionality
ENTESB-1273	EMBARGOED Fuse 6.0 is affected by CVE-2014-0085 Apache Zookeeper: admin user cleartext password appears in logging
ENTESB-480	remove patch-client feature
ENTESB-542	Upgrade to Pax Logging 1.7.1 when available
ENTESB-757	ESB web console branding
ENTESB-771	several test failed in servicemix-cxf-bc
ENTESB-772	Migrate camel-cxf-code-first and camel-cxf-contract-first archetypes to ASF Camel
ENTESB-794	Certify the JBoss Fuse 6.1 CXF component in library mode on EWS
ENTESB-795	Certify the JBoss Fuse 6.1 CXF component in library mode on EAP

Enhancement	Description
ENTESB-796	Certify the JBoss Fuse 6.1 Camel component in library mode on EWS
ENTESB-797	Certify the JBoss Fuse 6.1 Camel component in library mode on EAP
ENTESB-802	Upgrade to Spring 3.1.4 from 3.1.3
ENTESB-807	Upgrade to jolokia 1.1.3
ENTESB-814	Add fusesource repo to Camel archetypes
ENTESB-850	Include quickstarts in jboss-fuse kit
ENTESB-868	use stage repo for WSS4J 1.6.12 which is in VOTE
ENTESB-875	upgrade esbcomponents to use jetty 8.1.9
ENTESB-878	Run all FuseByExample demos against 6.1 kits
ENTESB-950	Incorrect dependencies version
ENTESB-957	Align versions of Karaf
ENTESB-958	Align versions of ServiceMix
ENTESB-962	Update (c) to 2013 in license.txt in jboss fuse distribution.
ENTESB-983	Remove the client.html from the soap example as any modern browser do not support that anymore
ENTESB-984	Fuse by Examples - Should be updated for JBoss Fuse 6.1
ENTESB-985	Align versions of Fuse build
ENTESB-986	URL to Doc has changed
ENTESB-997	Camel OSGi import range should be 2.12 onwards
ENTESB-998	JMX names - Should not include hostname by default
ENTESB-1012	Add sanity test to ensure each of the distros can start up
ENTESB-1013	Add hawtio builds into Perfectus
ENTESB-1017	Add sanity test to ensure that hawtio can start up

Enhancement	Description
ENTESB-1023	Use https repo URLs
ENTESB-1025	Remove deprecated FMC from Fuse 6.1 kits
ENTESB-1027	Fuse Camel 2.12 - Dependency to hawtio in parent/pom.xml
ENTESB-1105	Fabric - hawtio about dialog should use non-white logo
ENTESB-1124	JBoss Fuse 6.1.0 is affected by CVE-2013-6429
ENTESB-1141	Building the quickstart source fails
ENTESB-1167	Add additional dependencies to BOM
ENTESB-1168	checksum missing from released artifacts
ENTESB-1169	Update all fusebyexample projects to GA release version
ENTESB-1174	Drop support for Spring 2.x, 3.0.x, 3.1.x
ENTESB-1196	Fuse 6.0 is affected by CVE-2013-7285 XStream RCE due to insecure XML deserialization
ENTESB-1201	Review cxf-webinars code on FuseByExample web site
ENTESB-1220	Update to RH built native libs
ENTESB-1239	hawtio has M in the version name, eg 1.2-M-redhat-350
ENTESB-1253	Fuse BOM has version 1.0 should be 6.1
ENTESB-1279	Update to recent hibernate release
ENTESB-1295	Tanukiwrapper Solaris build
ENTESB-1331	Upgrade mqtt-client to 1.10
ENTESB-1335	Use Red Hat Tanuki build in Fuse 6.1
ENTESB-1351	Update JBoss Fuse to use redhat verison of hawtio-swagger-ui
ENTESB-1353	Remove use of nexus promotion profiles in perfectus
ENTESB-893	org.apache.camel.TypeConverterLoaderException: Failed to load type converters when deploying JBI service unit

Enhancement	Description
ENTESB-1327	[DOC] 6.1 Fabric patch documentation seems a bit out of date
ENTESB-1342	Migration issues are silent
ENTESB-1344	Unable to delete versions from the FMC
ENTESB-1352	Document Naming conventions for patches
ENTESB-893	org.apache.camel.TypeConverterLoaderException: Failed to load type converters when deploying JBI service unit
ENTESB-771	several test failed in servicemix-cxf-bc
ENTESB-875	upgrade esbcomponents to use jetty 8.1.9
SMX4NMR-315	provide a configurable way to specify the Karaf RolePrincipal classname when expose NMR DefaultAuthorizationEntry as OSGi service
SMX4-1452	introduce a throwExceptionOnFailure parameter for camel-nmr producer endpoint
SMX4-1509	CXF NMR transport should support JAXWS Async API out of box
SMX4-1547	use EndpointName + ServiceName + InterfaceName as a Key to distinguish a NMR destination
SMX4-1548	add interfaceName serviceName option for camel-nmr consumer endpoint
SMX4-1453	Excessive logging in CXF NMR binding and transport
SMX4-1584	Update to jruby 1.7.5
SMX4-1475	Create jsr339-api-2.0 API spec bundle

## 4.2. MESSAGING

Table 4.2, “[Messaging Enhancements in 6.1](#)” lists the enhancements in version 6.1.

**Table 4.2. Messaging Enhancements in 6.1**

Enhancement	Description
ENTMQ-278	Allow XAPooledConnectionFactory to be join an xa transaction - two connection factories in same arjuna jboss jta transaction
ENTMQ-291	Improve mq-web-console style sheet - clash of background and foreground text on list items

Enhancement	Description
ENTMQ-307	AMQP hardening
ENTMQ-323	Provide a way to see what the TTL is for a specific message
ENTMQ-324	Please add statistics regarding messageSize
ENTMQ-345	Move MQ integration tests under the MQ project.
ENTMQ-347	Allow JCA bound connection factory to be used outside of managedConnection - apply spec configuration like brokerURL
ENTMQ-359	Ability to determine the slowness of an ActiveMQ consumer
ENTMQ-369	Tell broker to use only space it thinks we have
ENTMQ-376	Please default checksumJournalFiles to true
ENTMQ-391	Add keep alive component to file locker
ENTMQ-392	Allow auto broker restart on xml configuration change feature to be disabled
ENTMQ-393	Allow wildcards in group definitions
ENTMQ-425	Please improve the logging for AMQ JDBC store so that the SQL statements can be logged
ENTMQ-426	Please provide a -port option on mqcreate
ENTMQ-427	Please provide a way to encrypt configured webconsole passwords
ENTMQ-428	Please make webconsole security role error more descriptive
ENTMQ-440	rename activemq-broker feature to a-mq-broker to reflect the fabric dependency (or difference from activemq)
ENTMQ-487	Make hawtio feature complete with web console
ENTMQ-179	Package CMS/NMS in distro
ENTMQ-303	Allow updates of broker configurations, without having to re-start the broker
ENTMQ-308	JMS Client for AMQP
ENTMQ-348	Certify LevelDB

Enhancement	Description
ENTMQ-396	Need a generic XA aware JMS ConnectionFactory that works with Aries TX manager
ENTMQ-351	HawtIO web console branding
ENTMQ-403	Run all FuseByExample demos against 6.1 kits
ENTMQ-419	Fix mq/mq-itests
ENTMQ-456	Package Clients into individual zips
ENTMQ-481	Remove ActiveMQ web console from A-MQ 6.1 kits
ENTMQ-500	ActiveMQ examples - Add repository to our repo so the examples can build
ENTMQ-519	Upgrade to qpid-amqp-1-0-client-jms 0.26
ENTMQ-535	Ensure jms amqp client reports an exception on a transport failure
ENTMQ-265	org.apache.activemq.transport.amqp.joram.JoramJmsTest hangs on several platforms
ENTMQ-297	Why is it 3x slower with transactions?
ENTMQ-298	How best to config system Usage memory limit and per destination memory limit?
ENTMQ-300	network consumers get confused during high traffic volume with consumer re-connects
ENTMQ-373	Messages consumed in a TX from AMQP client are not removed from the Queue
ENTMQ-469	Bug 1011042 - MDB stops processing messages after failover from master to slave
ENTMQ-570	[DOC] release note that jmx.restart is not production ready
ENTMQ-279	RAR - support session enlistment on cached connection (so transaction created after createConnection but before createSession)
ENTMQ-396	Need a generic XA aware JMS ConnectionFactory that works with Aries TX manager
AMQ-2180	infinite networkTTL
AMQ-2429	Show flow control being active on web console ...
AMQ-2932	A little optimization to IdGenerator and a potential issue with the counter
AMQ-3388	Http/https protocol uses Xstream for serializing commands in xml. Field additions to the commands breaks xstream serializacion between amq versions



Enhancement	Description
AMQ-3779	Allow logging broker plugin to use a log per destination
AMQ-4059	activemq-web - Remove dependency on Camel
AMQ-4174	Deleting/moving a message from queue overview should redirect back to overview of the queue
AMQ-4205	Expose thread pool configuration
AMQ-4337	Messages with AMQ_SCHEDULED_DELAY do not respect transactions
AMQ-4365	Allow the Lease Locker to be used with out a JDBCPersistenceAdapter - so it can be a kahadb lock
AMQ-4433	Socket parameters are not validated
AMQ-4438	Add uptime to bstat output
AMQ-4473	Allow enabling remote debug from newly created broker instance
AMQ-4482	Suport systemUsage.memoryUsage.percentOfJvmHeap=70 option
AMQ-4488	KahaDB should log a warning for recovered prepared XA Transactions on startup.
AMQ-4518	Expired Message check being done when its not really needed [Performance Issue]
AMQ-4520	Allow the bouncy castle security provider to be used if present in the lib dir.
AMQ-4522	Allow setting timeToLive when sending messages using JMX
AMQ-4539	make the networkTTL or brokerPath visible via jmx and via a message property
AMQ-4549	The activemq-all and activemq-osgi modules should have proper uber sources.jar files too.
AMQ-4571	Improve DestinationFilter to allow any filter to unsubscribe its wrapped destination from a durable subscruption
AMQ-4577	log level used to say a message ack was ignored because the message is expired should be debug and not warn
AMQ-4584	Allow configuration of a discarding dead letter strategy
AMQ-4593	Upgrade Snappy Java

Enhancement	Description
AMQ-4607	network connectors - new messageTTL and consumerTTL - split usage of networkTTL for mesh topology
AMQ-4621	Provide a polling SlowConsumerPolicy that uses LastAck time on a sub
AMQ-4637	Add cause property to DLQ message that exceed redelivery policy, ref the policy
AMQ-4662	KahaDB default checksumJournalFiles to true
AMQ-4668	REST API only accepts non-form content if content type of text/xml
AMQ-4675	Rest MessageServlet should set cache control header
AMQ-4689	Allow for JobSchedulerStore implementations to be provided by the PersistenceAdapter
AMQ-4706	Failover transport - Add option to configure WARN logging interval for failover attempts still failing
AMQ-4709	Allow wildcards in Authorization plugin group definitions
AMQ-4721	Update slf4j library to latest version (1.7.5 currently)
AMQ-4754	Add connection counters at broker level
AMQ-4758	Improve performance of pull consumers
AMQ-4787	ActiveMQ web console welcome page should not be constrained
AMQ-4795	Enable amqp transport out of the box in activemq-karaf
AMQ-4799	Starting AMQ standalone - ws connector url/port not logged
AMQ-4801	ActiveMQ web demo - chat example - Logs jetty IDLE ERROR 1st time
AMQ-4806	'./bin/activemq console' should 'exec' java so that way scripts calling it can get the pid for the broker's java process.
AMQ-4819	Reducing memory usage should log at INFO/WARN level instead of ERROR
AMQ-4821	runtime config - add support for spring properties config with properties or bean factory
AMQ-4825	ConnectionFactory and ActiveMQCamelComponent should default to the right port if on OpenShift
AMQ-4826	Avoid unnecessary remainder operator for floating-point

Enhancement	Description
AMQ-4831	Average message size attribute on broker mbean should not have decimals
AMQ-4843	runtime config - support addition of composite virtual destinations - forwardTo
AMQ-4844	Provide more granular karaf features
AMQ-4849	runtime config - support modifications to simpleAuthenticationPlugin plugin
AMQ-4852	Show clientId view of duplex network connection Mbeans
AMQ-4856	Change MIME type for XML in the REST API
AMQ-4881	Align xbean and upgrade to 3.15
AMQ-4903	ActiveMQ should depend to http feature instead of jetty
AMQ-4909	OSGi granularity of activemq-osgi bundle
AMQ-4912	StatisticsPlugin - destination stats should include broker info
AMQ-4916	Add JMX stats for Consumers and Producers accessible from the Broker
AMQ-4926	Extends activemq-karaf import version range to work with both Karaf 2 & 3
AMQ-4931	Karaf commands should auto-export interfaces
AMQ-4947	Reduce the reliance on fsync when writing to disk
AMQ-4969	Update the JobSchedulerStoreImpl in KahaDB to use LockableServiceSupport
AMQ-4979	Put back Jolokia management API
AMQ-4989	Better protect worker thread in TcpTransportServer that handles socket accepts
AMQ-5005	Eclipse build with latest Scala plugins fails
AMQ-5007	Upgrade Proton to v0.6
AMQ-5011	Statistics plugin doesn't fill in Message timestamp or priority
AMQ-5031	Allow isSameRM override from broker identity to connection identity to avoid xa.join
AMQ-5049	Set headless when running tests.

Enhancement	Description
AMQ-5050	Populate a 'Host' header in the WireFormatInfo of the Openwire protocol to let multi-tenant proxies route connections
AMQ-5076	Pooled session creation blocks when maxActive is reached
AMQ-5078	Typos in stomp/ProtocolConverter.java
AMQ-5091	Upgrade to jolokia 1.2
AMQ-3024	Scheduler should support non-Kaha persistence
AMQ-3097	add Function calls to selectors
AMQ-3452	add 'stop' goal to the maven-activemq-plugin
AMQ-3621	Integrate Apache Shiro with ActiveMQ as "security solution"
AMQ-4175	Adding a retry-button
AMQ-4188	ActiveMQ Karaf Command for overview of queues alike what you see in the web console
AMQ-4483	Improve DLQ handling
AMQ-4509	activemq-maven-plugin should have a stop goal
AMQ-4526	ActiveMQ should automatically restart if a Locker loses it's lock.
AMQ-4567	JMX operations on broker bypass authorization plugin
AMQ-4574	Add EndpointCompleter functionality to ActiveMQ Camel component
AMQ-4594	Replace web console with hawtio
AMQ-4617	Enable MQTT over WebSocket protocol
AMQ-4635	Expose producer flow control statistics via JMX
AMQ-4682	runtime configuration - allow selective application of changes to xml configuration without broker restart
AMQ-4690	create a camel component for intercepting messages as they pass through the Broker
AMQ-4697	Add the ability to show average message size per destination

Enhancement	Description
AMQ-4718	Extra options added to a failover/discovery URL that don't map to failover configuration settings, should get passed to the nested URLs.
AMQ-4723	HTTP Discovery agent should only poll for broker URLs while attempting to connect a transport.
AMQ-4757	Provide a generic jms XA connection pool
AMQ-4760	Add dstat command to activemq karaf commands
AMQ-4766	Expose Message Group maps via JMX
AMQ-4918	Added JMX metics for networks per destination
AMQ-4946	include activemq-jms-pool in activemq-all
AMQ-4968	Add new mode to JMS Pool that allows for not caching producers
AMQ-4990	Add support for the changes in MQTT 3.1.1
AMQ-5072	Support configuring a different directory for the KahaDB index files.
AMQ-4251	Scala compile warnings - Compiling activemq-leveldb-store
AMQ-4524	Remove camel-jetty dep from project
AMQ-4552	activemq-karaf - Should be able to install in Karaf 2.3
AMQ-4557	Upgrade dependency to karaf 2.3.1
AMQ-4732	maven : add IssueManagement declaration
AMQ-4733	Upgrade to Jasypt 1.9.1
AMQ-4734	Upgrade Jolokia to 1.1.3
AMQ-4745	Upgrade to json-simple 1.1.1
AMQ-4749	Upgrade to xerces 2.11.0
AMQ-4750	WebConsole readme in assembly should be updated with hawtio details
AMQ-4751	Upgrade to commons-io 2.4
AMQ-4752	Upgrade to derby 10.10.1.1

Enhancement	Description
AMQ-4780	Upgrade to qpid 0.24
AMQ-4784	Upgrade Jolokia to 1.1.4
AMQ-4803	Examples - Update instructions due recent moving of files to new directory
AMQ-4816	Update deprecated code in activemq-camel tests
AMQ-4839	deprecated JMS streams
AMQ-4858	Scala source file forgotten in /src/main/java
AMQ-4883	Fusesource release repo not needed
AMQ-4885	Typos in MessageStore
AMQ-5060	Upgrade to xstream 1.4.7
AMQ-5064	Update QPid client to v0.26
ENTESB-1220	Update to RH built native libs
ENTMQ-500	ActiveMQ examples - Add repository to our repo so the examples can build

### 4.3. ROUTING

Table 4.3, “Routing Enhancements in 6.1” lists the enhancements in version 6.1.

**Table 4.3. Routing Enhancements in 6.1**

Enhancement	Description
ENTESB-826	Add EA repo to archetypes
ENTESB-961	jboss-fuse - extras with Apache Camel included - Allow to run examples
CAMEL-3338	DefaultProducer should use same isSingleton setting as its endpoint
CAMEL-4075	Create camel-quartz2 component to support Quartz 2.1.x
CAMEL-4209	Upgrade camel-guice to use guice 3.0
CAMEL-4224	Add Lazy Connection to XMPP
CAMEL-4257	Expose setDeliveryMode property in org.apache.camel.component.jms.JmsComponent

Enhancement	Description
CAMEL-4515	Spring-WS should populate Camel Header with the SOAP Header
CAMEL-4629	Add support for loading script from file/classpath in the groovy/ognl/mvel etc components
CAMEL-4869	camel-ahc - Provide easier realm configuration possibility
CAMEL-4928	Async API support by the Timer component
CAMEL-4963	antInclude support for case insensitive patterns
CAMEL-5240	Upgrade to newer release of snmp4j
CAMEL-5269	Make it possible to change the remote file name without changing the local file name
CAMEL-5278	Allow JAXBDataFormat to (un)marshall with strict schema validation
CAMEL-5304	Unable to turn-off n to r conversion in HL7Converter
CAMEL-5320	camel-ftp - Add option to check files without downloading
CAMEL-5328	Camel PropertiesComponent should support resolution of nested properties
CAMEL-5359	camel-castor does not use mapping file to convert XML to Java
CAMEL-5383	[JDBC component] Add ResultMetaData as a header value
CAMEL-5388	Karaf command - ContextInfo - Should have verbose option
CAMEL-5396	Improve performance of DefaultJmsKeyFormatStrategy
CAMEL-5439	camel-ssh component should return the standard error and shell exist status
CAMEL-5441	Remove the import package of META-INF.cxf from the camel cxf related examples
CAMEL-5445	ManagementLoadTask - Background thread should defer starting till CamelContext has been started
CAMEL-5446	Add option to disable ManagementLoadTask
CAMEL-5462	Add tray support to camel-print
CAMEL-5479	Add support for the InOut Message Exchange Pattern to the twitter UserProducer in order to be able to retrieve the unique identifier for the published tweet
CAMEL-5483	Component for neo4j

Enhancement	Description
CAMEL-5488	Update and improve camel-hl7
CAMEL-5489	Support for selection of direct-vm consumers
CAMEL-5492	Add option to restrict HTTP method in camel-jetty and camel-servlet
CAMEL-5494	Camel's JavaConfigContextLoader class lacks support for Camel's testing annotations
CAMEL-5503	Expanding Bean Binding annotations to define explicitly what to apply it to
CAMEL-5541	Update Camel-XMPP tests to use embedded Apache Vysper
CAMEL-5544	Zookeeper route policy constructor has no need to throw exceptions
CAMEL-5546	Zookeeper master election logic is too tightly bound to the route policy logic
CAMEL-5550	Add headerName option to xpath/xpath language
CAMEL-5551	String types not converted from CLOB
CAMEL-5553	support injection of Endpoint and @Produce @Consume annotations
CAMEL-5554	allow XML DSL to work in CDI
CAMEL-5559	Upgrade camel-solr to use http client 4.x
CAMEL-5560	add support to camel:run for running CDI camel applications
CAMEL-5565	creating camel routes with the Java DSL and using Endpoint objects (particularly if using dependency injection of them) doesn't expose the endpoint URIs to JMX and tooling
CAMEL-5566	provide an annotation to auto-register a RouteBuilder with a CamelContext (lazily creating a new CamelContext if a different contextName is specified)
CAMEL-5568	Remove Spring Reference from Camel Core Feature
CAMEL-5569	Make Spring Optional Bundle Import for CXF Transport
CAMEL-5578	Polish our pom's to be as DRY as possible
CAMEL-5579	Add an abstract grouped by aggregator strategy that users can extend from.
CAMEL-5590	when recursive=true in camel-file url then may cause camel context not started
CAMEL-5591	Update Javassist bundle version



Enhancement	Description
CAMEL-5603	Camel endpoints with user info using @ sign in username or password should be encoded
CAMEL-5611	Issue with JndiContext in camel tests
CAMEL-5613	Provide robust connection support for JMX consumers
CAMEL-5630	Add a printer prefix option on the camel-printer endpoint
CAMEL-5634	camel-jaxb - Allow to control namespace prefixes
CAMEL-5640	Camel Karaf Commands - Add timeout option to stop route command
CAMEL-5642	Simple language - Limit escaping to newline related characters
CAMEL-5645	Apns Component should allow sandbox/prod environment variable in apnsServiceFactory
CAMEL-5649	Add no args constructor to Builder support class which is required by CDI
CAMEL-5658	Add method on ExecutorServiceManager to get Camels ThreadFactory
CAMEL-5664	Provides the replace wrap methods for calling the deprecated camel-core API
CAMEL-5667	Update the camel-scala DSL with latest camel java DSL
CAMEL-5675	Camel Route Startup Performance Slow
CAMEL-5713	SMPP Consumer: support for address_range parameter
CAMEL-5724	Spring-WS consumer and producer do not propagate some custome headers and attachements to a response message
CAMEL-5725	Thread pool profile - maxQueueSize = 0 should mean no work queue in use
CAMEL-5726	CamelContext - Add support for CamelContextAware on Language and DataFormat
CAMEL-5760	Aggregate EIP - Allow custom AggregationStrategy to implement Service to have callbacks when starting/stopping the EIP
CAMEL-5765	Simple language - Improve OGNL with hardcoded values for null bodies
CAMEL-5771	IOHelper.getCharsetName() should lookup CHARSET_NAME in headers if exchange property is not set
CAMEL-5775	Load balancer example - Should use the failover LB instead

Enhancement	Description
CAMEL-5787	Remove non Camel JARs from distro
CAMEL-5788	PGP dataformat should support take the key parameter from message header dynamically.
CAMEL-5791	Adding blueprint based camel-cxf tests using camel-test-blueprint
CAMEL-5793	Clients referring to seda: endpoint without options in URI, create implicit endpoints
CAMEL-5799	Add UpdateList, DeleteList and ExecutorType capabilities to mybatis component
CAMEL-5801	Make it easy to configure thread name pattern in XML DSL
CAMEL-5829	File consumer - Allow to configure logging level of read lock strategy
CAMEL-5849	Upgrade camel-hibernate to Hibernate 4.1.x
CAMEL-5853	Added CxfEndpointConfigurer to support configure the CXF endpoint programmatically
CAMEL-5863	camel-jms - Name of request reply classes for fixed queue names should be renamed
CAMEL-5881	FTP endpoints should support charset property like File endpoint does
CAMEL-5910	Mail Producer should store the mail message id when it sends the message.
CAMEL-5931	Upgrade Camel features to Spring 3.1 as minimum version
CAMEL-5932	Update camel-jpa for Spring 3.1
CAMEL-5933	Support Blueprint on Camel Transport of CXF
CAMEL-5937	Added sinceId option for camel-twitter pulling the status
CAMEL-5940	camel-cache - Add option to cache component to easily configure ehcache XML file to load by default
CAMEL-5954	Unify the variables which are exports to script
CAMEL-5960	Add routeld as function to simple language
CAMEL-5967	support to specify the camelContext through the attribute of destination or conduit
CAMEL-5969	OsgiServiceRegistry to lookup services with filter on name=blah
CAMEL-5972	OsgiServiceRegistry.lookupByType() should use BundleContext.getServiceReferences()

Enhancement	Description
CAMEL-5982	Search on twitter without filtering old tweets
CAMEL-5984	Specification of the language for the search Consumer and Producer
CAMEL-5997	Registry API changes to accomodate CDI
CAMEL-6006	File and ftp built in idempotent consumer - Allow to customize key
CAMEL-6010	camel-ibatis - Should load sql map in start instead of lazy getter
CAMEL-6019	Add PGP signature and signature verification support to PGPDDataFormat
CAMEL-6021	camel-twitter - support for pagination
CAMEL-6022	camel-twitter - limiting number of results per page
CAMEL-6026	Add options to let user get control of http connection
CAMEL-6030	camel-gae - Should not have Spring dependency
CAMEL-6031	CamelContext - Should fallback and use SimpleRegistry if JndiRegistry cannot be used by default
CAMEL-6032	servletcontextlistener - Allow to configure which registry to use / plugin custom registry
CAMEL-6039	camel-bindy fixed length record improvements
CAMEL-6040	Add an option to encrypt tmp files generated by Camel's CachedOutputStream
CAMEL-6042	AggregateProcessor/AggregationRepository does not deal with optimistic locking - will not work correctly in a distributed environment
CAMEL-6043	Improve the BeanInfo performance
CAMEL-6052	Remove dependency on com.sun.script-jython-engine
CAMEL-6057	Camel Spring registry does not look into parent contexts
CAMEL-6063	Check if body is a MimeMessage and send it directly without create a MimeMessage from body and headers
CAMEL-6076	deprecate the xxxRef options and provide the xxx option if it not exists yet
CAMEL-6080	ability to change properties on CamelContext at runtime using jmx

Enhancement	Description
CAMEL-6085	support the set the cache-control header in camel-restlet
CAMEL-6088	Add option to camel-crypto PGP to not always use CONSOLE for filename
CAMEL-6090	Allow for streaming of remote file content
CAMEL-6091	Improvement to SqlProducer class
CAMEL-6092	Camel CXF should set the MEP according to the BindingOperationInfo
CAMEL-6119	enhance Aggregator to allow forcing completion via a header and include the current message
CAMEL-6120	camel-ssh - Use ResourceHelper to load keystore so its easy loadable from classpath/file etc
CAMEL-6122	Upgrade component to jackson2
CAMEL-6131	RouteDefinition.toString() should include the route Id
CAMEL-6144	Optimistic Locking Required for JdbcAggregationRepository in order for Camel Aggregation to work in a Clustered environment
CAMEL-6146	Tracer mbean name in JMX has no need for hexcode
CAMEL-6151	Add support to DirectEndpoint for blocking until a consumer is available
CAMEL-6157	Parametrized queries in JDBC component
CAMEL-6164	camel-ftp - Add debug logging how long time it took to upload a file
CAMEL-6176	Camel 2.10.1 incapable of working with + in endpoint URIs
CAMEL-6183	xslt component - Add option to make it easy to use saxon as the transformer factory
CAMEL-6184	CamelContext - removeComponent should stop component first to be similar to removeEndpoints
CAMEL-6186	Enable sql component to doesn't try read the body.
CAMEL-6190	stream cache - Spool to disk threshold is too slow and we should log on startup at INFO level what the setting is in use
CAMEL-6193	mail component - When mapMailMessage=true we should eager map message

Enhancement	Description
CAMEL-6195	Improve tests for CAMEL-6090 to test for streams
CAMEL-6208	RichTestUri should support the template requestBody and asynSend APIs
CAMEL-6227	json data format - Add support for configuring gson options
CAMEL-6230	Allow endpoints to configure useRawUri to force using raw uris
CAMEL-6235	File consumer - preMove should happen after the file lock has been acquired
CAMEL-6239	Add incrementing counter to processor / route mbeans so we know the exact order they were created / positioned in routes
CAMEL-6240	Http4 component does not support PATCH
CAMEL-6247	Avoid verbose stacktrace when stopping camel:run for illegal state during pojors shutdown
CAMEL-6258	Sql component - Add noop option to execute the query but dont change the message body afterwards
CAMEL-6260	IllegalAccessException when setup statement in the camel-jdbc component
CAMEL-6264	Camel 2.10 performance regression with added statistics in BaseTypeConverterRegistry
CAMEL-6265	direct-vm component - The processor should support async routing engine
CAMEL-6266	Support for SFTP through a proxy
CAMEL-6268	camel-stream - Shutdown thread pool on consumer should happen faster
CAMEL-6272	Bean - Improve choose method logic for no parameter methods
CAMEL-6282	TypeConverterRegistry - Allow to enable or disable utilization statistics
CAMEL-6285	Apache Camel uptime reported in logs - Add to the log message that its Apache Camel etc
CAMEL-6286	Make SqsConsumer support async processors
CAMEL-6290	camel-example-osgi - Should not output to system out, but use log instead
CAMEL-6292	Camel archetype component - Use bundle packaging so component is ready to install in OSGi
CAMEL-6293	ftp(s) producers should add the ftpReplyString to the header

Enhancement	Description
CAMEL-6296	Support <code>httpConnectionManager.*</code> parameters on Camel-Http (HttpClient3)
CAMEL-6299	ServiceMBean - Should have an id so its easy to spot what the service is
CAMEL-6301	Route and CamelContext MBean - Add reset method that also reset all its processors
CAMEL-6308	ScheduledPollConsumer.startScheduler() access type should be "public", not "protected"
CAMEL-6310	BlueprintCamelContext start() method should setup the TCCL
CAMEL-6318	File consumer - Do not call contains on idempotent repository if its a directory
CAMEL-6330	Control Bus - Add suspend and resume actions
CAMEL-6331	camel-netty - Loading key store and trust stores should support classpath as well
CAMEL-6340	Improve Groovy performance
CAMEL-6345	CamelContext - Languages should be added as servies and stopped when stopping Camel
CAMEL-6346	Camel blueprint main should support to set the ConfigAdmin persistent information
CAMEL-6347	camel-spring-ws : Avoid the usage of CommonsHttpMessageSender in conjunction with the timeout or sslContextParameters options
CAMEL-6351	camel-blueprint - Should support using placeholder namespace for using property placeholders on any type in the DSL
CAMEL-6354	camel-shiro - Make it easier to configure username and password for subject
CAMEL-6355	File consumer - Check in progress eager as well to avoid any very slight chance for duplicate pickup
CAMEL-6356	link to camel registry in camel-stax is missing
CAMEL-6357	Routing engine - Preparing exchange should cater for end user by mistake copy headers the wrong way
CAMEL-6361	Validations exception should include line/column
CAMEL-6362	camel-sjms - Consumers should always use dedicated Sessions
CAMEL-6363	Allow to specify the string-template delimiters
CAMEL-6364	Improve processors wrapping

Enhancement	Description
CAMEL-6366	SQL component - Add option to dictate if output is list, object or map
CAMEL-6368	JDBC component - Add option to dictate if output is object, map, list
CAMEL-6370	Populate all optional parameter for SubmitSm, SubmitMulti and DataSm to SMSC
CAMEL-6371	Allow modifying the aggregation strategy by ProcessorFactories
CAMEL-6372	camel-krati - KratiConsumer should support maxMessagesPerPoll
CAMEL-6377	Optimize routing engine to reduce stack frames in use during routing and reduce callbacks
CAMEL-6378	Java DSL - Using transacted and onException in same route - Validate that onException is first
CAMEL-6379	json data format - Allow to configure jsonView in xml dsl
CAMEL-6381	camel-bindy - Add option to tell bindy that the last field is till end of line
CAMEL-6383	Disable tracer mbean/wrapped processor if not explicit enabled on camel context
CAMEL-6388	Camel Properties component should support to load the properties from a instance of map
CAMEL-6393	Making header propagation from cxf to camel consistent
CAMEL-6397	camel-restlet - Allow to configure reuseAddress option
CAMEL-6402	HTTP4 - Set the content length for requests, if known
CAMEL-6403	Add support for UnitOfWork per request
CAMEL-6405	seda/vm - Discard messages if shutting down route
CAMEL-6408	cxf endpoint's should log the parsing exception when failing to extract the root element name
CAMEL-6417	camel-http4 - Only one instance of SSLContextParameters can be supported per component
CAMEL-6418	camel-sql - Allow to configure separator when using # placeholder and values is taken from message body
CAMEL-6422	Add tokenizeXML to ValueBuilder
CAMEL-6426	When StartupListener is called, camel is still in starting, not started state

Enhancement	Description
CAMEL-6435	Remove the obsolete 'transient' modifier from both the static/non-static SLF4J Logger fields.
CAMEL-6444	Add Ip and Port Parameter
CAMEL-6446	Support JAXB annotations in Jackson Data Format
CAMEL-6453	Put the SSLSession instance into message header
CAMEL-6456	camel-csv - Delimiter option should be useable in unmarshal as well
CAMEL-6463	Camel routes added to context at wrong point of Spring lifecycle
CAMEL-6465	Add greedy option to ScheduledPollConsumer
CAMEL-6466	Log component URI parameters should be able to override custom formatter properties
CAMEL-6471	CxfPayload - Dont output the body in toString if streaming mode
CAMEL-6474	DOM2SAX doesn't provide the full support of SAX
CAMEL-6477	allow loading of keyfile from classpath
CAMEL-6480	Allow to turn off logging message body more easily
CAMEL-6481	Can't access to length of Array (java) from simple language
CAMEL-6483	Optimize writing response in camel-jetty
CAMEL-6485	Performance improvement in DefaultCamelContext by delaying synchronized block
CAMEL-6494	Allow for skipping fields and trailing characters in Bindy fixed-length records
CAMEL-6498	Improvement to allow passing in a parameter to a NamedQuery via Camel JPA
CAMEL-6502	Allow usage of Java KeyPair for SSH public key authentication in SFTP
CAMEL-6505	GenericFileMessage should override copy() method
CAMEL-6508	Recipient list EIP - Add property which endpoint an Exchange is from the recipient list
CAMEL-6510	AggregationStrategy - Allow it to be a service to make it easier to have logic in start/stop if needed
CAMEL-6515	camel-mongodb: Upgrade MongoDB driver from 2.9.1 to 2.11.2



Enhancement	Description
CAMEL-6517	Upgrade jclouds to 1.6.1-incubating
CAMEL-6521	ActiveMQUuidGenerator should allow configuring server socket port number
CAMEL-6545	seda producer - Add option to fail for non existing queue
CAMEL-6551	FtpConsumer fills up log file with "Cannot connect/login" WARN level messages
CAMEL-6553	bean component - Avoid WARN logging for not finding class when invoking a bean with constant values
CAMEL-6554	Add sync option to LevelDBAggregationRepository to make it easy to configure
CAMEL-6556	classpath problem with camel:run and provided dependencies
CAMEL-6559	script builder synchronized the operation of evaluateScript
CAMEL-6564	JMX - Services which can only be enlisted once should use fixed name
CAMEL-6570	CLIENT_CREATED event can't be sent in the CXFEndpoint.createClientFactoryBean()
CAMEL-6580	camel-jms - Dont allow CACHE_NONE for replyToCacheLevelName for temporary queues
CAMEL-6581	SendProcessor - Use fixed destination allow routing engine optimizations
CAMEL-6583	camel-jms - Add option to include optional JMSX properties in binding to Camel message
CAMEL-6590	Restlet header warnings
CAMEL-6591	SFTP endpoint fails if the server disconnected the socket
CAMEL-6594	TypeConverterRegistry - Add api to remove converters
CAMEL-6597	Camel conduit should support the JAXWS Async API out of box
CAMEL-6598	camel-dozer - Only add 2nd type converter if bi-directionaly
CAMEL-6611	camel-netty-http - If sending a plain request to SSL then we should send back nice error response
CAMEL-6619	Ignore line breaks in camel-xmlsecurity component
CAMEL-6621	Add ability to connect to SQS queue of different owner
CAMEL-6622	Support XML Encryption 1.1 features in the camel-xmlsecurity component

Enhancement	Description
CAMEL-6623	Support attaching to SQS queues where the user doesn't have permission to list the queues (manually build URL)
CAMEL-6628	ProducerTemplate - Allow to turn off event notifier
CAMEL-6629	Add requestBufferSize and requestHeaderSize options for jetty
CAMEL-6634	JMX Agent - Allow to use property placeholders for statisticsLevel option
CAMEL-6635	PollingConsumer from a scheduled consumer such as file/ftp can use a regular thread pool instead of being scheduled
CAMEL-6637	BeanIO Data Format logs at WARN level for conditions ignored in configuration
CAMEL-6639	SimpleLanguage.simple should detect if its a predicate and use that instead
CAMEL-6640	Migrate XML Security key cipher algorithm away from RSA v1.5
CAMEL-6642	Allow to configure a custom ExpressionResultComparator for resequencer eip in xml
CAMEL-6644	camel-netty - Add support for suspend/resume on netty TCP consumer
CAMEL-6651	Calling processAnnotations when using the XStreamDataFormat's aliases are set
CAMEL-6653	Support to set preferredAuthentications on SFTP
CAMEL-6655	SMPP - add support of Vendor Specific Optional Parameter
CAMEL-6659	Validate that onException,onCompletion etc must be configured at top-level in the routes
CAMEL-6661	xslt: TransformerException: include href is empty
CAMEL-6666	camel-fop - Allow to use classpath for userConfigUrl parameter
CAMEL-6670	Throttler EIP - Add JMX attribute to know if hit limit currently (eg its throttling state)
CAMEL-6671	FTP consumer - Add option to not use LIST command
CAMEL-6674	Add allowNull option to @Converter to allow type converters to return null as valid response for special use-cases
CAMEL-6677	Allow customization of the JAXB underlying XMLStreamWriter
CAMEL-6678	Throttler does not honor time slots after period expires

Enhancement	Description
CAMEL-6680	Simple language - Have singleton language for better performance
CAMEL-6686	camel-quartz - scheduled route policy - Should support clustered jobs
CAMEL-6688	ShutdownStrategy - Add option to suppress logging after context has been stopped in case of aggressive shutdown
CAMEL-6689	ResourceHelper do not work with encoded file paths
CAMEL-6692	camel-jms - Topics should also be managed in JMX
CAMEL-6697	camel-test-blueprint - Allow to register custom services in OSGi registry before Camel starts
CAMEL-6705	DefaultStreamCachingStrategy - Check for enabled in shouldSpoolCache method
CAMEL-6706	camel-blueprint - When having 2+ blueprint property placeholders then favor non default property value for overrides
CAMEL-6710	Add endpoint to consume received messages in camel-yammer
CAMEL-6718	Enable Streaming in MarschalProcessor
CAMEL-6722	binding component - Should start/stop its child services
CAMEL-6724	RegistryBean - Should avoid synchronized to getBean faster
CAMEL-6725	Add cache option to beanRef and <bean> in the DSL
CAMEL-6728	Configuring data format should have easier access to CamelContext
CAMEL-6729	camel-jt400 - no longer able to configure a pollStrategy on Jt400DataQueueEndpoint
CAMEL-6734	Introduce CamelFileNameConsumed Header
CAMEL-6737	camel-archetype-web - Add goal to deploy to JBoss AS
CAMEL-6742	PGP Data Format: enable configuration of public and secure key ring via byte array parameter
CAMEL-6745	sftp consumer - Option ignoreFileNotFound should be used for ignoring file permission errors as well
CAMEL-6746	vm component - Should keep track of active consumers on static level

Enhancement	Description
CAMEL-6748	CVE-2013-4330: Skipping Header Evaluation
CAMEL-6749	mustache component - Should use app class loader to load templates
CAMEL-6754	UnitUtilsTest cant manage a locale different from US
CAMEL-6760	camel-test-blueprint - Possibility to configure Camel Context creation timeout
CAMEL-6761	Upgrade to restlet 2.1.4
CAMEL-6763	Add configurePollingConsumer method to DefaultEndpoint
CAMEL-6764	camel-jms - Add workaround for AMQ to get JMSXUserID
CAMEL-6765	RouteAware API to allow injecting the Route into Consumer or other services which may need it
CAMEL-6766	InterceptFrom - Add support for using property placeholders
CAMEL-6769	JndiRegistry - Implement the methods that return empty set
CAMEL-6772	servletlistener component - Add messageHistory option
CAMEL-6773	camel-quartz2 - scheduled route policy - Should support clustered jobs
CAMEL-6776	Added setProperty DSL into camel-scala
CAMEL-6780	Binding component - Avoid duplicate prepare
CAMEL-6786	Preemptive authentication for http4 component
CAMEL-6795	default pool directory in DefaultStreamCachingStrategy should be in a camel sub dir
CAMEL-6809	rabbitmq.EXCHANGE_NAME header used in preference to uri exchange name
CAMEL-6834	support to send the Representation object back
CAMEL-6835	CamelBlueprintTestSupport should provide option of not generating test bundle
CAMEL-6837	PGP Data Format:allow other JCE providers than BC
CAMEL-6838	JMX Notification Trace Event Handler has no implementation for traceExchangeIn and traceExchangeOut
CAMEL-6841	xpath() method in the RouteBuilder should support to specify the return type

Enhancement	Description
CAMEL-6842	XmlRpcDataFormat should support to access XmlRpcStreamRequestConfig and TypeFactory
CAMEL-6850	Allow AWS SQS to not ack or even if it doesn't encounter an exception
CAMEL-6859	camel-test - Should allow max port at IPv4 limit
CAMEL-6860	PGP Data Format: parameterize encryption and hash algorithm
CAMEL-6862	DefaultTimeoutMap - Should use start/stop to schedule the task, and cancel the task
CAMEL-6875	PGP Data Format: Allow keyring with several secrete keys, keys with several UserIds, select keys in unmarshalling by keyld
CAMEL-6876	camel-jpa - Like the JpaConsumer, also JpaProducer should provide the Header 'CamelEntityManager' of the IN payload
CAMEL-6879	camel-restlet - restlet consumer should send back HTTP headers
CAMEL-6883	CAMEL-SOAP uses wrong namespace
CAMEL-6894	camel-netty-http - Should use orderedThreadPoolExecutor
CAMEL-6899	Stream component has various problems.
CAMEL-6904	Reduce logging noise when starting a Camel app in OSGi
CAMEL-6906	PGPDataFormat: Enable Streaming during Unmarshaling
CAMEL-6907	DefaultEndpoint - Add setProperties method like we have in DefaultComponent
CAMEL-6908	camel-ftp - Using ftpClient.xxx options should support reference lookup in registry
CAMEL-6909	RabbitMQ Support for Exchange Type
CAMEL-6911	PGPDataFormat: encryption with several public keys and compression algorithm
CAMEL-6916	PropertyPlaceHolder : IgnoreMissingLocation should protect from unresolvable system variable location
CAMEL-6938	JMX names - Should not include hostname by default
CAMEL-6946	camel-netty - Use ConnectionException instead of CamelException if cannot connect to remote server

Enhancement	Description
CAMEL-6947	camel-rabbit - RabbitMQ producer should start stop more cleanly
CAMEL-6951	camel-core - Improve ServiceHelper utility class.
CAMEL-6952	RabbitMQProducer should support RoutingKey option
CAMEL-6953	Simple expression "\${headers.CamelHttpUrl} contains 'foo'" never becomes true
CAMEL-6954	camel-mina2 - UDP protocol should use worker pool as well
CAMEL-6957	CxfEndpoint setServiceClass should check the empty String
CAMEL-6958	Add shutdown timeout to context-info karaf command
CAMEL-6959	Update to XML Security 1.5.6
CAMEL-6960	ActiveMQ uuid generator - should sanitize hostname
CAMEL-6961	Make Camel core bundle configurable to generate less or smaller log messages itself
CAMEL-6962	Allow binding name to be specified in JibxDataFormat
CAMEL-6970	camel-mina2 - Mark a potential WriteFuture#getException() as the root cause of the thrown CamelExchangeException when writing into a session fails
CAMEL-6972	JMX MBean naming - Use symbolicName instead of bundleId as default for OSGi naming
CAMEL-6973	Add a simple expression for null
CAMEL-6981	Route model should include attribute if id is custom assigned or auto generated
CAMEL-6982	Karaf Camel commands - Polish table output
CAMEL-6990	Add language to ValueBuilder so you can more easily use custom languages in Java DSL
CAMEL-6995	Language component - Add option to reuse compiled script or not
CAMEL-7000	Avro DataFormat - Should initialize using start stop logic instead of at runtime
CAMEL-7001	Avro DataFormat - Classloading issue with loading schema
CAMEL-7002	PGPDataFormat: restrict verifying public keys and allow several signatures
CAMEL-7004	CamelContextMBean - Add attributes for total/started routes

Enhancement	Description
CAMEL-7014	Potential problem with camel-restlet if unavailable
CAMEL-7020	Make camel servlet related components deployable on OSGi with servlet 3.0
CAMEL-7026	camel-jms - Allow a message to control the request timeout using a header
CAMEL-7034	camel-quartz - Should auto assign scheduler instance name with camel management name
CAMEL-7060	camel-netty-http - Do not url decode headers by default
CAMEL-7066	Unable to use Twitter Camel Component with proxy settings
CAMEL-7067	JcrProducer should not store all exchange properties in the target JCR node
CAMEL-7072	Veracode compliance. Use of Externally-Controlled Input to Select Classes or Code ('Unsafe Reflection') (CWE ID 470) in AnnotationTypeConverterLoader
CAMEL-7075	Veracode compliance. Improper Resource Shutdown or Release (CWE ID 404) in FileInputStreamCache
CAMEL-7076	spring-event should not be auto enlisted
CAMEL-7078	camel-cxf-transport component should propagate SecurityContext
CAMEL-7079	Improvements to camel-shiro's ShiroSecurityProcessor
CAMEL-7080	Add support of lazy load to csv data format
CAMEL-7082	Supporting to set more work thread in camel-restlet component
CAMEL-7083	Log a warning when default encryption keys used
CAMEL-7086	Allow multiple Zookeeper servers in endpoint
CAMEL-7088	Veracode compliance. Improper Resource Shutdown or Release (CWE ID 404) in FileLockExclusiveReadLockStrategy
CAMEL-7099	csv data format - Make use of buffered I/O while unmarshalling
CAMEL-7103	camel-quartz - Store trigger information in job map
CAMEL-7109	Attachments are not correctly ordered
CAMEL-7113	Ignored InterruptedException in IdGenerator

Enhancement	Description
CAMEL-7117	JettyHttpProducer.client._threadPool contains non-daemon threads only
CAMEL-7119	AggregationStrategies - Add useOriginal
CAMEL-7122	javascript language not resolving
CAMEL-7131	Set some default feature of DocumentFactoryBuilder
CAMEL-7134	camel-twitter supports to configure if using SSL or not
CAMEL-7137	camel-salesforce - Make it easier to configure in blueprint
CAMEL-7140	camel-quartz - loading properties file should support file path
CAMEL-7150	Provides options to setup the parameter on the WebSocketServlet
CAMEL-7154	InterceptSendToMockEndpointStrategy - easier to add custom logic
CAMEL-7164	TypeConverterRegistry - More JMX details
CAMEL-7176	camel-vertx - Should support async request/reply
CAMEL-7177	camel-vertx - Should allow to use clustered and non clustered vertx
CAMEL-7181	Propagate the attachments information when the CXF endpoint is POJO and disable the MTOM
CAMEL-7186	Add @UriParam to components in camel-core
CAMEL-7187	apt document generator - OSGi split package issue when writing to same package
CAMEL-7188	ManagedCamelContext - Find component names doesnt work
CAMEL-7195	Default ehcache.xml configure from camel-cache jar should not rely on multicast
CAMEL-7203	DefaultUnitOfWork - Optimize to only do defensive copy if useOriginalMessage is enabled
CAMEL-7205	camel-twitter - Add JMX operations so users can see/change configuration at runtime
CAMEL-7208	ManagedCamelContext - addOrUpdateRoutesFromXml should support decoding xml
CAMEL-7215	Stop and un-schedule jobs on removal of route
CAMEL-7267	camel-salesforce - Problem deploying to karaf containers



Enhancement	Description
CAMEL-7295	camel-quickfix feature should install correct mina bundle
CAMEL-1069	camel-mail - add option for searchterm
CAMEL-3096	Create a simple example for JDBC - camel-example-jdbc
CAMEL-3104	ExchangeBuilder to create messages using fluent builder style
CAMEL-3215	@PropertyInjected - An annotation to inject a property from Camel properties
CAMEL-4327	Resequencer should include option to never deliver out-of-sequence messages
CAMEL-4691	New camel-cmis component
CAMEL-4876	Add support for a "back-off multiplier" capability to the ScheduledPollConsumer
CAMEL-4974	Hide or Encrypt some informations in the JMX MBeans
CAMEL-5219	create camel-elasticsearch component
CAMEL-5416	Camel Simple JMS Component
CAMEL-5438	Dynamic resolve property for CamelContext
CAMEL-5447	Automatically create camel context instance in CDI containers
CAMEL-5477	Camel component contribution for CouchDB
CAMEL-5481	add elasticsearch GET & DELETE support
CAMEL-5516	@Consume and @Produce annotations - Allow to refer to property on bean with the endpoint to use
CAMEL-5538	Add skipFaultLogging option to disable the Fault logging in PhaseInterceptorChain
CAMEL-5549	create a VTD-XML component
CAMEL-5617	Added an option in MainSupport to load the camel route builder
CAMEL-5643	JDBC aggregation repository - Allow users to store body and arbitrary headers as text within a datasource
CAMEL-5651	Control Bus EIP
CAMEL-5698	Allow to set a custom LogFormatter in the Log component

Enhancement	Description
CAMEL-5734	Cold restart via JMX
CAMEL-5758	Add support for Spring Activation profile annotation from Spring 3.1
CAMEL-5778	Add camel-xmlrpc component
CAMEL-5807	Data format for Base64 encode/decode
CAMEL-5815	camel-spring-ws - Support for WS-Addressing Action
CAMEL-5817	LDAP component that is able not only to read from LDAP, but also bind/unbind nodes
CAMEL-5819	camel-netty - Add timeout option
CAMEL-5820	Allow to use property placeholders in <route> id attribute
CAMEL-5822	Add JMX operation to reset throughput logger
CAMEL-5827	camel-bindy - Handle implied-decimal values
CAMEL-5828	Offer LMAX Disruptor pattern as an endpoint in CAMEL
CAMEL-5842	camel-ldap - Allow to configure SSL using Camels SSL support
CAMEL-5843	camel-zookeeper - Add functionality to delete a node
CAMEL-5893	JAXB FallbackTypeConverter support to check the isPrettyPrint setting from camel property
CAMEL-5898	Extend Java DSL for Groovy routes
CAMEL-5906	camel-servlet - Create a camel filter for starting Camel without using Spring XML etc
CAMEL-5912	Add url rewrite plugin to http components
CAMEL-5916	CXFRS: Simpler, higher-level binding style injecting headers, attachments and entity
CAMEL-5918	Add performance tests
CAMEL-5976	camel-sql - Add support for batch consumer
CAMEL-5977	camel-sql - Add support for map based parameters
CAMEL-6000	camel-mongodb - Dynamically add indexes to collections
CAMEL-6016	Simple language - Add type function which can refer to a constant or enum

Enhancement	Description
CAMEL-6047	Validator component - Add option to validate against message header instead of body
CAMEL-6061	Add support for zip file format
CAMEL-6067	Provider deleteJob=true/false as an option for Quartz component
CAMEL-6096	Camel SQS has no reasonable way to add arbitrary delays to messages
CAMEL-6115	Add a global interceptor mechanism
CAMEL-6139	Split the content of a Zip File
CAMEL-6147	improve the stream:file to be able to auto close when it detects the splitter is done
CAMEL-6148	BacklogTracer - Allow to capture message tracers and store in backlog for retrieval on demand (pull based)
CAMEL-6165	camel-stomp - A java based stomp component using stompjms client
CAMEL-6194	Create @PreConsumed Annotation or Fix @Consumed Annotation For JPA Component
CAMEL-6222	camel-example-blueprintweb - An example like the tomcat example but using blueprint-web to be Spring free example
CAMEL-6225	Add support for deleting the local file after uploading to S3
CAMEL-6236	dataformat component - To make it easier to use data formats as if it was another component
CAMEL-6237	Karaf command for profile routes
CAMEL-6304	make it easier to auto-document components/endpoints (like maven goals); use annotations to automatically generate configuration documentation
CAMEL-6306	provide a way to introspect a component, find the various parameters available and their types so that tooling can provide forms to let users create & customise endpoints
CAMEL-6320	Provide support for ICAL data format
CAMEL-6324	Camel karaf command to show type converter utilization stats
CAMEL-6327	camel-netty-http - Netty based HTTP component
CAMEL-6339	XML Signature Component in camel/components/xmlsecurity

Enhancement	Description
CAMEL-6343	Stax support for toggling namespace awareness
CAMEL-6359	camel-bindy - new EnumFormat
CAMEL-6384	Add debugger mbean for tooling
CAMEL-6389	Add a mvel templating component along with the mvel expression language
CAMEL-6391	provide an endpoint path completion API so that we can complete endpoint paths (e.g. directory names, queue names, database table names) inside Karaf commands, IDEs or web consoles
CAMEL-6394	provide an API on ComponentConfiguration & JMX to get the JSON Schema of the parameters of a component/endpoint for tooling
CAMEL-6398	Weather component
CAMEL-6407	Include message history in stacktraces from error handler, making it easier to know where the problem was
CAMEL-6419	Controlbus - Add stats action to get performance statics in XML
CAMEL-6424	camel-netty-http - Add support for basic auth
CAMEL-6428	Salesforce Component
CAMEL-6431	camel-geocoder component
CAMEL-6467	Add Mustache Component
CAMEL-6476	StreamCachingStrategy - A better strategy
CAMEL-6479	New FileExist option for File component: TryRename
CAMEL-6488	camel-netty-http - Add support for sharing port in Karaf between Camel bundles
CAMEL-6493	camel-yammer - component to interact with yammer social network
CAMEL-6506	CometdComponent does not allow addition of serverlisteners to the bayeux server
CAMEL-6507	Add aggregate ability to camel-mongodb
CAMEL-6522	camel-netty - Allow sharing boss and worker thread pools
CAMEL-6534	Component for RabbitMQ

Enhancement	Description
CAMEL-6539	Typeconverter for Spring Resource abstraction
CAMEL-6542	Camel Toolbox: Useful Aggregation Strategies
CAMEL-6575	Enhancements for camel-avro
CAMEL-6588	Choose BlockingQueue implementation in Seda component
CAMEL-6603	Long <-> Date TypeConverter
CAMEL-6631	SchedulerPollConsumer - Allow to configure scheduler to use eg camel-quartz for scheduling the task
CAMEL-6638	create a camel component for vertx
CAMEL-6650	AggregationStrategy - Allow to use a pojo with no Camel API dependencies
CAMEL-6676	Add support for Facebook
CAMEL-6681	Configurable LockType for JpaConsumer
CAMEL-6739	Maven archetype for creating new Camel with CXF project
CAMEL-6830	Create camel-ical feature
CAMEL-6868	camel-rabbitmq- Support clustered brokers using multiple addresses when calling ConnectionFactory
CAMEL-6933	Support Xerces global features configuration
CAMEL-6971	Supprts to set the Providers and SchemaLocation in CXFRsEndpoint
CAMEL-6993	Use varargs in PredicateBuilder
CAMEL-7022	UnitOfWorkFactory - for spi to allow users to plugin custom uow classes
CAMEL-7023	Add hawtio goal to camel plugin
CAMEL-7101	Add aggregation strategy to aggregate multiple messages into a zip file
CAMEL-7105	Add ability to send html emails and auto reconnect for sqs queues
CAMEL-5486	ConnectionResource Refactoring and OSGi Export Fix
CAMEL-5497	Add Batch Transaction Support

Enhancement	Description
CAMEL-5502	SjmsEndpoint getDestinationName() Doesn't Remove Parameters
CAMEL-5614	Use single package for core of camel-cdi
CAMEL-5805	OSGi support of camel-xmlrpc
CAMEL-5814	support to configure the XmlRpcClient
CAMEL-6149	Karaf command for backlog tracer
CAMEL-6246	Improve unit tests for the optimistic aggregate repo
CAMEL-6654	Attachments with null filename should not be allowed
CAMEL-4643	Make it easier to check outdated dependencies and avoid duplicate/different version definitions
CAMEL-5443	Move performance tests to dedicated section under integration tests
CAMEL-5511	Upgrade camel-http4 to http client 4.2.1
CAMEL-5552	made camel-cmis support osgi
CAMEL-5584	camel-quickfix - Remove QuickfixjEngine's forcedShutdown field as setting it to true/false has no effect.
CAMEL-5586	camel-elasticsearch: Fail constantly on CI server and local machine
CAMEL-5589	Prefer to make use of StringBuilder instead of StringBuffer where applicable
CAMEL-5619	Add blueprint example for XPath on headers
CAMEL-5648	camel-example-cdi - The two maven profiles inside this example's POM (glassfish / jboss) don't work properly
CAMEL-5672	Avoid using the System.out / System.error PrintStreams for logging
CAMEL-5674	Upgrade Pax Exam to 2.6.0
CAMEL-5721	Remove not used NodeFactory and re-use code for setting expressions in the DSL
CAMEL-5740	Upgrade to slf4j 1.7.2
CAMEL-5768	Upgrade to Spring 3.1.x by default and add Spring 3.0 integration tests.

Enhancement	Description
CAMEL-5874	Make sure the xmlrpc producer copy the header of in message to the out message
CAMEL-5903	Upgrade OSGi bundles with latest SMX bundle release
CAMEL-5904	Upgrade to Netty 3.6.1
CAMEL-5915	camel-test-spring should not include the classes from camel-test
CAMEL-5919	Remove support for junit 3.x in Camel test components
CAMEL-5921	Upgrade to twitter4j 3.0.x
CAMEL-5923	Upgrade to string template 4.0
CAMEL-5934	Cleanup pom.xml to have maven plugins using properties for their versions so its easier to upgrade
CAMEL-5936	Upgrade to servicemix specs 2.2.0
CAMEL-5939	camel-test-spring - Deprecate classes in junit4 package to avoid split package problem with OSGi
CAMEL-5947	upgrade to axiom 1.2.14 and abdera 1.1.3
CAMEL-6011	Upgrade to Scala 2.10
CAMEL-6036	Comment doesnt fit to code in code snippet
CAMEL-6050	Camel Maven Plugins - Fix the warnings Maven reports while building the Camel plugins
CAMEL-6112	camel-blueprint - Use same version of Aries Blueprint et all as Karaf 2.3.1
CAMEL-6125	OSGi test failures on Karaf 2.3.1
CAMEL-6153	Rename camel-neo4j and camel-redis to include spring in their name
CAMEL-6156	blueprint-cxf-test - Fails on trunk with 1 test error
CAMEL-6182	Merge the camel-scala-extra into camel-scala
CAMEL-6192	Remove EnhancedThrowableRenderer from log4j.properties as it has a bug
CAMEL-6241	camel-bindy: Bunch of the tests fail if the language of the JRE default Locale is something other than english, e.g. "de"

Enhancement	Description
CAMEL-6249	Update the config.properties to mach the exported packages for Karaf 2.3.x
CAMEL-6315	Remove camel-scala29 from next release
CAMEL-6344	camel-bean-validator - Upgrade to latest hibernate validator
CAMEL-6392	ResourceEndpoint duplicated between camel-core and camel-spring. Should be removed from camel-spring
CAMEL-6412	camel-itest - Fix the Maven critical warning about camel-validator-test-resources.jar
CAMEL-6486	Upgrade camel-bean-validator to JSR349 (Bean Validation 1.1)
CAMEL-6487	camel-ftp - Upgrade to commons net 3.3
CAMEL-6495	Upgrade to Hazelcast 2.6
CAMEL-6497	Upgrade to commons-logging 1.1.3
CAMEL-6518	Upgrade javax.mail/mail from 1.4.5 to 1.4.7
CAMEL-6519	Upgrade org.hibernate:hibernate-entitymanager to 4.2.2.Final
CAMEL-6527	Upgrade net.sf.ehcache:ehcache to 2.7.2
CAMEL-6528	Upgrade net.sf.saxon:Saxon-HE to 9.5.0.2
CAMEL-6529	Upgrade com.sun.xml.parsers:jaxp-ri from 1.4.2 -> 1.4.5
CAMEL-6530	Upgrade com.amazonaws:aws-java-sdk to 1.4.7
CAMEL-6531	Upgrade org.mvel:mvel2 to 2.1.6.Final
CAMEL-6532	Upgrade org.beanio:beanio to 2.0.6
CAMEL-6533	Upgrade org.apache.openejb:openejb-core to 4.5.2
CAMEL-6536	camel-test-osgi - JClouds upgrade causes unit test to not compile
CAMEL-6555	camel-netty - Upgrade to Netty 4 or 5
CAMEL-6567	Upgrade to Spring Batch 2.2.1
CAMEL-6578	Upgrade CXF to 2.7.6 / 2.6.9



Enhancement	Description
CAMEL-6587	Cannot build camel with maven 3.1
CAMEL-6596	We use some outdated Maven plugins. We should check whether we can upgrade
CAMEL-6673	spi-annotations should be shaded into camel-core
CAMEL-6805	All the 4 tests by MongoDBIndexTest are failing
CAMEL-6806	Upgrade org.apache.httpcomponents to 4.3
CAMEL-6849	Update to jruby 1.7.5
CAMEL-6852	camel-apns - Upgrade to 0.2.x
CAMEL-6877	examples - camel-examples-etl is broken
CAMEL-6882	examples - Make camel-examples-etl to work properly inside Karaf
CAMEL-6923	camel-zookeeper - Documentation has missing options and some misleading as well
CAMEL-6966	Update the Fuse related maven repo
CAMEL-7032	Align the netty version of camel components
CAMEL-7065	Disable generate manul build by using profile fastinstall
CAMEL-7098	csv data format - Simplify and clean-up the unmarshalling logic
CAMEL-7110	Upgrade OpenJPA version to 2.3.0
CAMEL-7170	Upgrade to CXF 2.7.10
CAMEL-7216	Upgrade to xstream 1.4.7
CAMEL-7223	camel-solr - Avoid using hard-coded ports for the unit-tests
CAMEL-7289	Update MQTT client library dependency to latest version 1.10
ENTESB-1220	Update to RH built native libs
ENTESB-814	Add fusesource repo to Camel archetypes
CAMEL-5700	enhance camel-cdi to support annotatedtypes
CAMEL-6003	Aggregator EIP to support an AggregatorRepository, to store in flight Exchanges

Enhancement	Description
CAMEL-6792	Camel Test Support needs a new Method
CAMEL-7006	Make method asService protected in class CamelBlueprintTestSupport
CAMEL-7184	Improve camel-quickfix component to lazy create its engine on demand

## 4.4. WEB SERVICES

Table 4.4, “Web Services Enhancements in 6.1” lists the enhancements in version 6.1.

**Table 4.4. Web Services Enhancements in 6.1**

Enhancement	Description
ENTESB-826	Add EA repo to archetypes
SF-455	Suppose to change the trustManager dynamically on CXF
ENTESB-989	introduce cxf swagger feature
SF-462	generate a WSDL / WADL / swagger API docs.json and deploy to the maven build as part of the maven build
SF-463	provide an MBean to be able to return the JSON Schema of an XML Schema type
SF-464	provide a JMX API so we know which features are available - WSDL, WADL, swagger
SF-465	provide a JMX API to access the CXF Servlet path so we don't have to hard code it to "/cxf" in code
SF-466	would be nice if the swagger feature could be discovered by the CXF bus on the classpath
SF-467	provide an MBean to be able to return the JSON Schema for REST endpoint
SF-471	the generated WADL doesn't include the class name of the XML / JSON DTO
CXF-2335	Support @Context injection for JAX-RS Subresources
CXF-3932	RSTR Lifetime element sets current time in Created element
CXF-4289	Coping Request SOAP Headers to Fault response
CXF-4397	Cached Reader/Writer in org.apache.cxf.io
CXF-4457	Extend WS-SecureConversation to support SAML Assertions for authentication

Enhancement	Description
CXF-4461	ClaimsHandler is called only if a requested claim is supported
CXF-4463	Support caching for mapped principals/identites
CXF-4525	expose http client, allow for NTLM authentication
CXF-4531	Introduce ContinuationCallback interface for reporting various continuation status updates
CXF-4544	Create a common SAML-based SecurityContext for both the JAX-RS and JAX-WS layers
CXF-4548	Enable use of customized session provider in OAuth2 GrantService
CXF-4549	Add retrieval of AccessToken to OAuth2 MessageContext
CXF-4555	enable http:conduit to configure the chunk size
CXF-4558	Relax the requirement for a child <wsp:Policy> element for a WS-SecurityPolicy HttpsToken policy
CXF-4561	Allow disabling WSI-BSP compliance in UsernameTokenInterceptor
CXF-4568	Adding OAuthContextUtils
CXF-4576	Provide logs on policy attachment parsing errors
CXF-4577	Support EHCACHE 2.5.2+
CXF-4578	SearchConditionVisitor should be parameterized on the query type
CXF-4585	Updated the cxf imports version range of sts-core bundle
CXF-4590	STUtils: DRY refactoring and support Soap12 via property
CXF-4593	STSCient: support different SOAP bindings for MEX call
CXF-4596	Adding an option to encrypt tmp files generated by CachedOutputStream
CXF-4602	getL7dLogger improvements
CXF-4607	RequestDispatcherProvider should be able to use enum classes better
CXF-4628	Only use default AttributeStatementProvider in STS if no Claims were handled
CXF-4638	Add ability to set STSCient Claims via a CallbackHandler

Enhancement	Description
CXF-4639	Add ability to send an existing SAML Token via the JAX-RS SAML code
CXF-4641	Make it simpler to convert FIQL expressions to custom expressions in the application code
CXF-4654	cxflist-buses - Table layout should be aligned if bus name is long
CXF-4655	Enforce SAML SubjectConfirmation requirements for the non WS-SecurityPolicy case
CXF-4656	[OAuth 2] Add attributes property to UserSubject object
CXF-4657	Add XACML functionality to CXF runtime
CXF-4660	Support list parameters at CXFNonSpringJaxrsServlet
CXF-4661	Make CachedOutputStream configurable using the Bus properties
CXF-4664	Support primary and secondary Claims in the STS
CXF-4668	STS: provide callback to modify AssertionWrapper before signing
CXF-4669	[OAuth2] Return expires_in with token in ImplicitGrantService
CXF-4672	Extra class property is not used when JAXB package contexts are created
CXF-4673	[OAuth2] Add requestedScope as a parameter to getPreauthorizedToken
CXF-4674	Early consume publishedEndpointUrl property
CXF-4675	Move createUserSubject from RedirectionBasedGrantService to the OAuthDataProvider
CXF-4677	Introduce "autoRewriteSoapAddressForAllServices" property to overwrite all service endpoints in returning WSDL
CXF-4693	Search visitors are not thread safe
CXF-4700	Add an operation for manually removing WS-RM messages and sequences over JMX
CXF-4702	Make it possible to get global JAX-RS providers registered on the bus
CXF-4703	CXF loading performance
CXF-4705	Allow STS to configure signature + encryption crypto objects via URL + Properties object
CXF-4712	Minor performance improvements (bus start and service build from wsdl)

Enhancement	Description
CXF-4717	should add dependency='true' for javamail bundle in cxf features.xml
CXF-4724	cxf-codegen-plugin should be able to use proxy.user/proxy.password from maven settings.xml
CXF-4747	Support easier configuration of Spring bus with WebClient
CXF-4748	getMessage from java.lang.Throwable is excluded from accepted method
CXF-4760	Provide ability to disable chunked transfer encoding for BinaryDataProvider
CXF-4768	Refact SwaOutInterceptor for more compatible JAXB Impl usage
CXF-4777	Allow providing CXF compiler instance to be used in WSDLToJava
CXF-4786	Support KerberosToken SupportingToken policies without a security binding
CXF-4798	Allow CachedWriter and CachedOutputStream to be configured using the same set of properties
CXF-4799	Parameterized Classes should be automatically added to JAXBContext
CXF-4800	Exception mapper on the client in case of method Response return value
CXF-4825	Remove static JAX-RS API calls from within JAX-RS server and client runtimes
CXF-4829	Add OperationInfo based authorization interceptor
CXF-4839	WSDL parser error not logged
CXF-4840	add more optional Import-Package for cxf-rt-transports-http module
CXF-4843	STSCient always uses "old" WS-Policy namespace for AppliesTo
CXF-4849	WebClient needs to support JAX-RS 2.0 GenericType
CXF-4854	Load the STS war on startup
CXF-4857	Workaround for Socket Closed exception with some JDK 1.6.0_nn (>= 38)
CXF-4896	Reduce reflection usage during java-first endpoint creation
CXF-4900	Provide options to control the cxf bus's interaction with osgi-service based features and lifecycle listeners

Enhancement	Description
CXF-4915	JAX-RS HttpHeaders implementations creates too many maps
CXF-4926	remove org.apache.activemq.activemq-core as Require-Bundle from wsn-core module
CXF-4931	Create the SecurityContext from a JAAS Subject in the WS-* layer if available
CXF-4959	Support hierarchical mimetypes
CXF-4966	KerberosClient does not need the cxf Bus but it is required in the constructor
CXF-4968	Add an option to limit the number of active sequences that are created at WS-RM endpoints
CXF-4971	JSONProvider should be able to drop a root dynamically
CXF-4974	CXF JAX-RS Client interface should support close() calls similarly to frontend Client
CXF-4978	Only encrypt an issued token if we have a matching key
CXF-4987	org.apache.cxf.ws.security.wss4j.WSS4JOutInterceptor disables mtom silently
CXF-4997	Skip PolicyBasedWSS4JInInterceptor processing when AssertionInfoMap not available
CXF-4998	JAXRSCientFactory: Missing factory method for username+password and providers
CXF-5025	Support WS-SecurityPolicy "Strict" Layout validation
CXF-5031	Add support for SupportingToken policy assertions without a binding
CXF-5032	Support SOAP 1.2 in DynamicClient
CXF-5039	IdentityMapping support in ClaimsManager
CXF-5049	Support for schema compiler options in DynamicClientFactory
CXF-5053	JAX-RS behavior differs from JAX-WS for MessageContext.get( Message.class.getName() )
CXF-5055	Support Clients pre-registering scopes and OOB response in OAuth2 Authorization Flow
CXF-5069	Create utility caching MessageBodyWriter and MessageBodyReader
CXF-5081	FIQL - use custome query param name instead of default _s
CXF-5088	Make the service file of cxf-core.jar Web Application Server friendly

Enhancement	Description
CXF-5101	Add more options for validating the search values
CXF-5130	Update WebClient to provide a link to SyncInvoker
CXF-5139	Support FIQL expressions containing single equals operator
CXF-5148	can't use property place holder in http:server http:client with blueprint
CXF-5150	Support to load the HttpClient conduit when the address is started with "hc://"
CXF-5151	WSDLGetInterceptor supports GZIP encoding
CXF-5162	OAuth2 AccessTokenService should validate if Client supports a given grant
CXF-5165	add a JAAS authenticator for ServiceListPage
CXF-5169	the schema-validation-enabled property doesn't work for OUT message validation
CXF-5179	Add optional id field to UserSubject
CXF-5180	Adding RefreshToken as token type
CXF-5187	Use a negative value of maxRetries to indicate unbounded retries in WS-RM
CXF-5200	Support newer signature algorithms in WS-SecurityPolicy (such as RSA-SHA256)
CXF-5209	Support for OAuth2 audience parameter
CXF-5212	Context Injection with Spring AOP
CXF-5239	Support OAuth2 Transient Client Secret Extension
CXF-5251	Implement more stringent requirements on allowing OnBehalfOf/ActAs in the STS
CXF-5253	Update JPA visitor to use a strict match for Strings unless they have wildcards or a user property enables a wildcard match
CXF-5255	Support revocation lists in the XKMS Service
CXF-5273	Filter the interceptor according to Phase instead of class name in WSDLGetInterceptor
CXF-5277	ConditionsProvider receives limited information from SAMLTokenRenewer
CXF-5290	jaxb's databinding to support an option to not include specific namespace declarations when marshaling

Enhancement	Description
CXF-5291	Only activate ws-security caching if it is required
CXF-5300	Support mapping of exceptions thrown from CXF interceptors to JAX-RS Response
CXF-5301	JSONProvider should add an array key for root if arrayKeys is not empty but top level array has to be produced
CXF-5313	Use different log levels for sts LoggerListener
CXF-5314	JAX-RS client runtime needs to optionally support CXF inFaultInterceptors
CXF-5317	Policy exception handler throws away useful exception stack trace
CXF-5319	WADLGenerator should not need "ignoreMessageWriters" property disabled to produces JSON
CXF-5322	misleading warning for @XmlType without 'propOrder' element
CXF-5323	[cxf-rt-core] remove geronimo-javamail_1.4_spec dependency
CXF-5329	cxf-wsn doesn't register its bus as OSGi-Service
CXF-5332	Support spring expression language for jaxws:client address attribute
CXF-5342	Letting to be absolute XSISchemaNamespace
CXF-5362	Spring jaxrs scheme and bean definition parser must allow alternative property setting
CXF-5387	Relax SOAPAction check in SoapActionInInterceptor
CXF-5400	SearchContext should propagate parsing exceptions by default
CXF-5402	Cannot report customized error back from loginHandler to ResourceOwnerGrantHandler
CXF-5409	Make response code be included in logging for LocalTransport
CXF-5461	Add ws-securitypolicy-1.2.xsd to rt-ws-policy's schema resolution
CXF-5467	Hazelcast Tokenstore configuration with Spring
CXF-5488	make basePath in SwaggerFeature configurable
CXF-5489	Add 'transferTo' functionality to Attachments



Enhancement	Description
CXF-5519	Setting SecurityConstants.STS_TOKEN_ACT_AS as CallbackHandler requires better documentation.
CXF-5521	Setting SecurityConstants.STS_TOKEN_ON_BEHALF_OF as CallbackHandler requires better documentation.
CXF-5533	Store a reference to a Bootstrap SecurityToken in SecureConversation
CXF-5541	Introduce CXFServlet bus parameter
CXF-5597	Setup the ResourceResolver for BlueprintBus
CXF-5632	Support collocating SAML SSO RequestAssertionConsumerService with the actual endpoint
CXF-3883	Support for identity mapping as part of issue token process
CXF-4442	Process OneTimeUse element of SAML assertion
CXF-4610	Provide support for enabling / disabling Schema Validation at the Operation level
CXF-4756	Introduce @FaultAction annotation to specify WSA Action for Faults
CXF-4828	Support SAML Bearer assertions for OAuth2 client authorization
CXF-4936	(PATCH) Expose FastInfoset serializer tuning properties
CXF-4994	Support LDAP groups as claim
CXF-5010	Add customizable request logging capability to STS
CXF-5041	Netty Http transport for CXF
CXF-5080	Introduce CXFBlueprintServlet
CXF-5135	Implement JAX-RS 2.0 Fluent Client API
CXF-5333	Feature to allow you to dynamically change the trustManager on CXF
CXF-5379	introduce cxf swagger feature
CXF-4924	Many docLocation for a server address
CXF-5042	SSL supports

Enhancement	Description
CXF-5043	Spring configuration supports
CXF-5044	blueprint configuration support
CXF-5109	Add supports of loading the netty transport with "netty://" prefix
CXF-5120	support the TLSSessionInfo generation
CXF-5127	Add the maxChunkContentSize option
CXF-4632	upgrade to aries 1.0.0
CXF-4648	Update wadl-to-java code generator to add AsyncResponse parameters to selected methods
CXF-4667	Provide FIQL to LDAP query visitor
CXF-4682	Upgrade Karaf version to 2.2.9
CXF-4729	Support @XmlAccessorOrder(XmlAccessOrder.ALPHABETICAL) in Exception class
CXF-4744	Upgrade to Jettison 1.3.3
CXF-4783	Provide default OAuth2 MAC token nonce verifier
CXF-4865	Upgrade to wsdl4j-1.6.3
CXF-4871	Add -clientjar flag to wsdl2java tool
CXF-4880	Incorrect enforcement of X509Token PKI policies
CXF-4883	OAuth2 RedirectionBasedService needs to do only a strict comparison of redirect URI
CXF-4950	Support 'qs' media type parameters
CXF-4988	JAX-RS Provider improvements
CXF-5007	Updates to various JAX-RS API class implementations
CXF-5090	Update Jettison version to 1.3.4
CXF-5122	HTTPConduit should optionally be able to restrict redirects to same host and support relative redirects
CXF-5142	Simplify running JAXWS client with security manager on

Enhancement	Description
CXF-5155	Send request URI, serviceName + operationName in the PEP -> PDP request as separate Resource Attributes
CXF-5163	Support marshall exception class with @XmlAccessorType in JAXBEncoderDecoder
CXF-5355	Investigate if WadlGenerator can handle XmlType-only and XmlSeeAlso beans
CXF-5463	Upgrade to Jettison 1.3.5
ENTESB-868	use stage repo for WSS4J 1.6.12 which is in VOTE
ENTESB-957	Align versions of Karaf
SF-472	new JMX operation on CXF endpoint to convert JSON -> XML
CXF-4898	Allow to specify types in WSDiscoveryService registration
CXF-5236	Make UserSubject, Client, AccessToken, .... Serializable

## 4.5. CONTAINER

Table 4.5, “Container Enhancements in 6.1” lists the enhancements in version 6.1.

**Table 4.5. Container Enhancements in 6.1**

Enhancement	Description
ARIES-1038	be able to easily use Blueprint inside a WAR in any servlet container using blueprint-noosgi and a ServletContextListener to boot up all the blueprint XML files
ARIES-1069	Publish a single interface for better integration of the TransactionManager with other low-level components
ARIES-1082	Add a way to use property placeholders to define filters on service references
ARIES-998	Support a subset of blueprint outside OSGi
FELIX-4316	Packages imported dynamically should also be imported statically with an optional flag
FELIX-4317	SCR implementation should avoid using bundleContext.getBundle()
FELIX-4339	Make the use of escape characters deterministic
FELIX-4343	[DS] rationalize log levels

Enhancement	Description
FELIX-3997	Provide an abstract bundle extender

## 4.6. FUSE FABRIC

Table 4.6, “Fabric Enhancements in 6.1” lists the enhancements in version 6.1.

**Table 4.6. Fabric Enhancements in 6.1**

Enhancement	Description
FABRIC-106	Rename the following command "container-domains" to "container-jmx-domains"
FABRIC-346	support git repos as the storage mechanism for Fabric configuration
FABRIC-375	Provide encryption capabilities in Fabric Profiles and Fuse ESB configuration files
FABRIC-377	Create a command for profiles to pick up new versions
FABRIC-379	Make Fabric Patch Process available via the CommandLine
FABRIC-389	have a fabric-web agent so that any web app deployed into karaf is automatically registered into the ZooKeeper /fabric/clusters/web/:groupId/:artifactId/:version/:profile/:container URI
FABRIC-391	Unable to create child container on remote root container using oracle JDK 7 on linux
FABRIC-410	Should be able to specify multiple -p/--profile arguments to fabric:create
FABRIC-419	Ability to Create Root Container on the Local Host
FABRIC-430	camel-fabric should support to set the zookeeper client options from component level.
FABRIC-435	RandomLoadBalanceStrategy should check the empty of alternateAddressList
FABRIC-438	Add a simple lock service based on the zookeeper recipes
FABRIC-439	Improve the way Fabric detects port usage by containers
FABRIC-445	Fabric profile should allow renaming and copying of profile.
FABRIC-451	Allow the zookeeper URL to bind to a specific address
FABRIC-452	Replace the zookeeper client with curator.
FABRIC-453	fabric:create should allow the user to be able to specify the initial git repo to use as the source of the configuration

Enhancement	Description
FABRIC-455	there seems to be a branch called 1.0-tmp left after using the fabric-git-zkbridge - can we delete it?
FABRIC-458	Add caching to the zookeeper datastore
FABRIC-460	Provide a way to report blueprint/spring context failures in fabric.
FABRIC-465	Improve usability of profile import/export options
FABRIC-471	Fabric should skip ephemeral nodes when copying entries between ensembles.
FABRIC-472	FabricService and DataStore should provide means of untracking configuration
FABRIC-475	Upgrade to jclouds 1.6.x
FABRIC-482	Fabric doesn't allow remote host user/password to be changed once the container is created.
FABRIC-491	Upgrade to the latest stable zookeeper version (3.4.5).
FABRIC-553	Add a placeholder resolver for environment variables.
FABRIC-554	Wait for placeholder resolvers before substitution
FABRIC-560	Align the jclouds container provider with the rest of the container providers and use SCR.
FABRIC-563	Provide a container placeholder resolver.
FABRIC-600	fabric:create and fabric-ensemble-add/remove should provide more control over the zookeeper server configuration.
FABRIC-606	Creating containers on openshift often fails
FABRIC-729	Encryption placeholder resolver is not workable
FABRIC-750	org.apache.zookeeper.server.PreRequestProcessor logging is too noisy
FABRIC-789	Creating fabric from CLI - Have some information that it takes a little while for the fabric to be ready
FABRIC-801	In OpenShift, after instantiating the cartridge there is no link to the management console
FABRIC-161	git mirror for fabric configuration
FABRIC-320	Provision jetty using fabric

Enhancement	Description
FABRIC-428	add a profile URL handler so folks can load configuration files for their profile
FABRIC-429	Abstract out profile storage
FABRIC-433	support profiles which load their blueprint XML from inside the profile configuration (e.g. from git / ZK tree) - and then detect changes in the configuration and reload the services
FABRIC-434	fabric-cxf FabricLoadBalancerFeature support to take effect on client after setting to bus
FABRIC-463	Provide the ability to partition task and balance them accross containers
FABRIC-473	Integrate Fabric with the Process Manager so that we can manage process on remote fabric containers
FABRIC-499	Ability to specify Java version used by fabric container
FABRIC-500	Add global resource repositories for resolution via the fabric-agent
FABRIC-501	fabric/file-dozer-watcher - a component to watch dozer mappings file changes and sync that into a camel context type converter registry
FABRIC-525	Add an openshift container provider implementation
FABRIC-526	Provide an option to select which DEFAULT_VERSION we would like to use when we create the first time the Zookeeper server and load the profiles
FABRIC-562	Add firewall management support of openstack based clouds.
FABRIC-508	Fix fuse ignored tests
FABRIC-512	Fix insight log4j SourceTest
FABRIC-517	Fix tooling camel LocalCamelFacadeTest
FABRIC-519	Fix duplicate jboss-fuse artifact-id
FABRIC-558	Define and implement a policy on handling of zombie containers.
FABRIC-596	Review fuse repository setup in the maven build
FABRIC-625	Exclude tooling modules from the default build
FABRIC-629	Remove dependency on blueprint from fabric-zookeeper
FABRIC-636	Remove initial configuration for ZooKeeperClusterBootstrapImpl

Enhancement	Description
FABRIC-652	Make sure every ignored test references a jira
FABRIC-655	Revisit DataStore handling
FABRIC-672	Fix fabric basic ExampleCxfProfileTest
FABRIC-675	Fix insight log PaxLoggingTest
FABRIC-691	Fix fabric smoke tests
FABRIC-712	Fix possible synchronization issues
FABRIC-723	Update to apache-maven-3.1.1
FABRIC-775	Split ESB test suite up in smoke, basic, extra
FABRIC-788	WARN in log when creating child container
FABRIC-798	Migrate boot commands to SCR
FABRIC-807	WTF is the google map view for?
FABRIC-846	Move ServiceProxy and ServiceLocator to fabric-api
FABRIC-874	Bootstrap completion not properly defined
FABRIC-886	Define stability criteria and fix remaining stability issues
FABRIC-966	Define the scope of public API in 6.1
FABRIC-509	Fix fabric groups GroupTest
FABRIC-510	Fix fab/tests/fab-itests
FABRIC-528	Fix fabric camel MasterEndpointFailoverTest
FABRIC-529	Fix fabric core PatchServiceImplTest
FABRIC-535	Fix fabric git CachingGitDataStoreTest
FABRIC-590	Fix fabric basic GitBridgeTest
FABRIC-614	Migrate upstream jobs to Jenkins
FABRIC-615	Install GitHub Pull Request Plugin

Enhancement	Description
FABRIC-616	Enforce verify before commit rule
FABRIC-617	Fix fab/fab-core tests
FABRIC-619	Publish artefacts from the last successful master run to Nexus
FABRIC-621	Fix mq smoke GracefullFailOverTest
FABRIC-628	Review branches on fuse-fabric/fuse
FABRIC-637	Fix fabric smoke AutoClusterStartupTest
FABRIC-638	Fix fabric smoke ContainerRegistrationTest
FABRIC-639	Fix fabric smoke ContainerStartupTest
FABRIC-640	Fix fabric smoke ContainerUpgradeAndRollbackTest
FABRIC-641	Fix fabric smoke CreateChildContainerTest
FABRIC-642	Fix fabric smoke DeploymentAgentTest
FABRIC-643	Fix fabric smoke EnsembleTest
FABRIC-644	Fix fabric smoke FabricDosgiCamelTest
FABRIC-645	Fix fabric smoke FabricMavenProxyTest
FABRIC-646	Fix fabric smoke JoinTest
FABRIC-647	Fix fabric smoke ProfileEditTest
FABRIC-648	Fix fabric smoke ResolverTest
FABRIC-649	Fix fabric smoke FabricCreateTest
FABRIC-654	Monitor disk usage and provide automated cleanup
FABRIC-660	Fix esb smoke DuplicateBundlesTest
FABRIC-661	Fix esb smoke EsbExampleFeaturesTest
FABRIC-662	Fix esb EsbFeaturesTest
FABRIC-663	Fix fabric core ContainerImplTest



Enhancement	Description
FABRIC-665	Fix fabric basic JaasRealmTest
FABRIC-666	Fix fabric basic SelfUpdateTest
FABRIC-667	Fix fabric basic CamelProfileTest
FABRIC-668	Fix fabric basic FabricCamelComponentTest
FABRIC-669	Fix fabric basic EsbProfileTest
FABRIC-670	Fix fabric basic ExampleCamelCxfTest
FABRIC-671	Fix fabric basic ExampleCamelProfileTest
FABRIC-673	Fix fabric basic ExampleMQProfileTest
FABRIC-676	Fix tooling amq LocalBrokerFacadeTest
FABRIC-677	Fix tooling camel ActiveMQLocalCamelFacadeTest
FABRIC-678	Fix tooling camel ExternalRemoteCamelFacadeTest
FABRIC-679	Fix tooling camel JmxTemplateRemoteCamelFacadeTest
FABRIC-680	Fix tooling camel RemoteCamelFacadeTest
FABRIC-681	Fix mq smoke KillSessionFailOverTest
FABRIC-682	Fix mq smoke MQDistroTest
FABRIC-683	Fix mq MQFabricTest
FABRIC-684	Fix stream bridge ConnectionFactoryAdapterTest
FABRIC-689	Fix fabric dosgi TransportFailureTest
FABRIC-690	Allow failed builds to get rescheduled automatically
FABRIC-700	Fix fabric basic ExtendedJoinTest
FABRIC-704	Security vulnerability on Jenkins master/slaves
FABRIC-709	Fix fabric dosgi InvocationTest
FABRIC-724	Make sure perfectus updates get validated

Enhancement	Description
FABRIC-725	Stabilize -Pall profile build
FABRIC-727	Fix fabric basic ProfileScalingTest
FABRIC-742	Doc review - Fabric Guide - URL Handlers
FABRIC-777	Fix fabric basic ExtendedCreateChildContainerTest
FABRIC-784	Fix ExtendedEnsembleTest
FABRIC-796	Fix esb basic EsbProfileRedeployTest
FABRIC-812	Fix esb EsbProfileLongTest
FABRIC-847	Fix fabric basic ExampleCamelClusterTest
FABRIC-903	Fix ExtendedJoinTest
FABRIC-905	Tests with child containers may fail due to provisioning issues
FABRIC-906	Fix ExampleMQProfileTest
FABRIC-931	Container fails to provision
FABRIC-939	Container child2 failed to provision. Status: Exception:null
FABRIC-940	Cannot create container in time
FABRIC-963	Documentation - Add to release notes / known issues about starting Fuse on Windows with IP6 network issue

## CHAPTER 5. APACHE DEPENDENCIES

The following Apache projects are used in version 6.1:

### **Apache ActiveMQ**

Red Hat JBoss Fuse includes Apache ActiveMQ 5.9

### **Apache Karaf**

Red Hat JBoss Fuse includes Apache Karaf 2.3

### **Apache CXF**

Red Hat JBoss Fuse includes Apache CXF 2.7

### **Apache ServiceMix**

Red Hat JBoss Fuse includes Apache ServiceMix 4.5

### **Apache Camel**

Red Hat JBoss Fuse includes Apache Camel 2.12