

Fuse ESB Enterprise **Release Notes**

Version 7.1
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Integration Everywhere

Release Notes

Version 7.1

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- Stax2 API (<http://woodstox.codehaus.org/StAX2>) org.codehaus.woodstox:stax2-api:jar:3.1.1

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- jibx-run - JiBX runtime (<http://www.jibx.org/main-reactor/jibx-run>) org.jibx:jibx-run:bundle:1.2.3

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- JavaAssist (<http://www.jboss.org/javassist>) org.jboss.javassist:com.springsource.javassist:jar:3.9.0.GA:compile

License: MPL (<http://www.mozilla.org/MPL/MPL-1.1.html>)

- HAPI-OSGI-Base Module (<http://hl7api.sourceforge.net/hapi-osgi-base/>) ca.uhn.hapi:hapi-osgi-base:bundle:1.2
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Chapter 1. Security Alerts

The following security alerts are known to affect 7.1:

Security vulnerability in Camel Restlet component

The `APPLICATION_JAVA_OBJECT` and `APPLICATION_JAVA_OBJECT_XML` media types are not safe to use from a security perspective. There is a weakness in the XML deserialization mechanism used by these media types, which allows a remote attacker to force the JVM to execute unwanted Java code embedded inside a specially-crafted request to the REST endpoint. By default, `camel-restlet` uses the

`APPLICATION_WWW_FORM` media type, which is not affected by this issue.

It is possible to change the media type by setting the `Content-Type` message header. If you do so, it is important to ensure you do not use the `APPLICATION_JAVA_OBJECT` and `APPLICATION_JAVA_OBJECT_XML` media types. These media types will be disabled entirely in a future release.

Chapter 2. Security Changes in 7.0.2

Overview

To ensure that the Fuse ESB Enterprise container is automatically secure after you install it, the default security settings have changed in version 7.0.2. By default in Fuse ESB Enterprise 7.0.2, none of the container's services are remotely accessible.

Affected ports and services

The following ports and services are affected by this security change:

- SSH console port (remote administration).
 - JMX port.
 - Apache ActiveMQ JMS broker.
 - Karaf Web console (not enabled by default).
 - Apache ActiveMQ Web console (not enabled by default).
-

Impact on Apache Camel applications

If you deploy any routes that connect to the internal Apache ActiveMQ broker, *you must change the configuration of the ConnectionFactory* so that it is defined with a username and a password. This is necessary, because the Apache ActiveMQ broker is now secure by default.

For example, in Spring XML you could configure the Camel ActiveMQ component as follows:

```
<beans ... >
  ...
  <bean id="activemq"
        class="org.apache.activemq.camel.component.ActiveMQComponent">
    <property name="brokerURL" value="tcp://localhost:61616"/>
    <property name="userName" value="Username"/>
    <property name="password" value="Password"/>
  </bean>
  ...
</beans>
```

Migrating your applications to 7.0.2

Where the *Username* and *Password* are the credentials of a JAAS user with `admin` privileges.

When migrating your applications to a fresh installation of a Fuse ESB Enterprise 7.0.2 container, you should perform the following steps to configure security on the container:

1. Configure JAAS security in the `InstallDir/etc/users.properties` file to have at least one user entry with `admin` privileges . Each user entry is defined on its own line and has the following format:

```
Username=Password,admin
```

Where the `admin` role gives this user the privileges to access all administration and management functions of the container.

2. Edit the `InstallDir/etc/system.properties` file and modify the `webconsole.jmx.*` and `webconsole.jms.*` properties as follows:

```
webconsole.jmx.user=Username
webconsole.jmx.password=Password
webconsole.jms.user=Username
webconsole.jms.password=Password
```

Where the *Username* and *Password* are the credentials of a JAAS user with `admin` privileges.

Reference

For more details about these security changes, see ["Basic Security"](#) in *Configuring and Running Fuse ESB Enterprise*.

Chapter 3. New Features

General

The following general features were added:

Java 7 support

Fuse MQ Enterprise supports Java 7 and Java 6. The runtime is compiled against JDK 1.6 and is verified against JDK 1.7.

Message Broker

The new features were added to the messaging layer:

Secure WebSocket transport

The Stomp-over-WebSocket protocol (`ws`: URL) supports a secure variant (`wss`: URL), which takes its SSL/TLS configuration from the `sslContext` configuration element.

Broker redelivery

With *broker redelivery* the redelivery logic is implemented on the broker. This has the advantage that messages can be redelivered even after a specific consumer has died, but has the disadvantage that message order cannot be guaranteed.

Broker redelivery can be enabled by installing the `redeliveryPlugin` on the broker.

Pluggable locking for stores

Message store locking has been refactored so that the locking logic is independent of the particular store implementation. The new architecture allows you to use any kind of locker with any kind of store database. Three locker types are currently provided:

- *shared file locker*
- *database locker*
- *lease database locker*

Lease database locker

The *lease database locker* is a new locker implementation that is recommended as a replacement for the default database locker. With the default database locker, it could happen that the master broker crashes without releasing the lock, so that the slave remains permanently

locked out and is unable to take over from the master. This problem is solved in the lease database locker, because the master acquires only a temporary lease on the lock and must regularly renew the lease. If the master crashes, the slave can acquire the lock as soon as the lease times out.

Redelivery policy per destination

It is now possible to associate redelivery policies with specific destinations, by defining a redelivery map that associates a redelivery policy with each named destination (where the name can include wildcards).

LevelDB store

Fuse MQ Enterprise supports the new LevelDB store, which uses Google's LevelDB library to maintain the indexes into the log files.

MQTT transport

Fuse MQ Enterprise now supports the [MQTT](http://mqtt.org/)¹ (MQ Telemetry Transport) transport. There are three variations of the MQTT transport:

- plain MQTT (`mqtt: URL`)
- MQTT+NIO (`mqtt+nio: URL`)
- MQTT+NIO+SSL (`mqtt+nio+ssl: URL`)

LDAP authorization plug-in

Fuse MQ Enterprise now supports an LDAP authorization plug-in. You can configure the LDAP authorization plug-in by adding the `cachedLDAPAuthorizationMap` element as a child of `authorizationPlugin/map`.

Stomp 1.1

Fuse MQ Enterprise now supports Stomp 1.1.

Stomp + NIO + SSL

Fuse MQ Enterprise now supports the Stomp+NIO+SSL protocol combination (`stomp+nio+ssl: URL`).

¹ <http://mqtt.org/>

MS SQL JDBC driver 4.0

Fuse MQ Enterprise now supports using MS SQL JDBC driver 4.0 with the JDBC persistence adapter.

Fuse Fabric

The following features are new in Fuse Fabric:

Zookeeper security

Only authenticated users can change profile data in the Fabric registry.

Cloud APIs

The jclouds update introduced a cloud APIs that make it easier to connect to cloud providers.

Chapter 4. Known issues

The following issues are known to exist in 7.1:

Installer's default user conflicts with a system user on Red Hat Enterprise Linux

The installer suggests a default user of `fuse` to be used when installing the product. Red Hat Enterprise Linux already has a `fuse` system user. Thus, you cannot use the suggested default when installing on Red Hat Enterprise Linux.

AIX installers do not work with default group

AIX has an eight character limit for user and group names. The installer default for the group name, `fusesource` is too long. Accepting this on AIX will fail with an error of unable to create user/group. Using a shorter group name addresses resolves this issue.

Cannot use the **help** in the generic Apache Karaf shell

Apache ActiveMQ's console is normally launched using the **fusemq** command which is fully functional. However, Apache ActiveMQ also includes a generic Apache Karaf shell that can be launched using the **shell** command. In the generic shell, the **help** command throws an exception.

We do not recommend using the generic Apache Karaf shell.

ls can cause an exception

The **ls** console command, which is used for inspecting OSGi bundles, will throw an exception when listing the contents of some bundles.

Microsoft Visual C++ Runtime required on Windows 7 64-bit

On certain 64bit Windows platforms you need [Microsoft Visual C++ 2008 Redistributable Package \(x64\)](http://www.microsoft.com/download/en/details.aspx?id=2092)¹ installed or Apache ActiveMQ will not start.

Java hash code security vulnerability

It was found that the Java `hashCode()` method implementation was susceptible to predictable hash collisions. A remote attacker could use this flaw to cause the Jetty HTTP server (a component of Apache Karaf, used by Fuse ESB Enterprise) to use an excessive amount of CPU time

¹ <http://www.microsoft.com/download/en/details.aspx?id=2092>

by sending an HTTP request with a large number of parameters whose names map to the same hash value. This update introduces a limit of 1000 on the number of parameters processed per request to mitigate this issue.

Chapter 5. Resolved Issues

ESB

[Table 5.1 on page 19](#) lists the issues resolved between 7.0.2 and 7.1.

Table 5.1. ESB Issues Resolved in 7.1

Issue	Description
ENTESB-126	Client script cannot connect to Fuse ESB Enterprise in background
ENTESB-206	ServiceMix-shared does not contain all necessary dependencies to install itself
ENTESB-217	The <code>client.html</code> file of the soap example fails
ENTESB-219	SOAP example - Reference to more information is missing
ENTESB-223	Restarting a CXF endpoint using the CXF commands does not work
ENTESB-224	SOAP secure example - References to source code files from <code>readme</code> does not match up with sources in <code>src</code> directory
ENTESB-227	cxflist-endpoints - Duplicate headers if multiple endpoints installed
ENTESB-251	<code>ClassCastException</code> when installing camel-hdfs component
ENTESB-254	features:install camel-soap fails in new release
ENTESB-256	HTTP JBI <code>servicemix-http.xml</code> <code>HttpConfiguration</code> doesn't set all available configuration options
ENTESB-257	The shell help for the patch:install command is wrong
ENTESB-260	Provider <code>org.apache.cxf.jaxws.spi.ProviderImpl</code> not found exception when install cxf-wsn feature
ENTESB-265	cxfl-wsn-api bundle can't find <code>org.apache.cxf.jaxws.spi.ProviderImpl</code>
ENTESB-268	Fuse ESB Enterprise <code>tar.gz</code> contains files with executable rights
ENTESB-274	Camel feature cannot be deployed

Issue	Description
ENTESB-276	Enable <code>org.apache.servicemix.eip.support.AbstractContentBasedRouter</code> to convert messages using <code>DOMSource</code>
ENTESB-281	<code>NullPointerException</code> when deploying servicemix camel JBI endpoint using blueprint
ENTESB-284	When use <code>cxfr-wsn</code> in OSGi container ensure use bundle specific bus but not the global bus
ENTESB-301	7.1.x doesn't have the "osgi.core" MBeans any more
ENTESB-303	Fuse ESB Enterprise doesn't update <code>instance.properties</code> file if the <code>karaf.name</code> is changed
ENTESB-315	Cannot start the distro
ENTESB-316	<code>ClassCastException</code> from aries on startup
ENTESB-318	<code>servicemix-shared</code> is missing the scripting api dependency
ENTESB-320	" <code>java.lang.ClassCastException: org.apache.aries.jpa.blueprint.aries.impl.NSHandler\$1 cannot be cast to org.apache.aries.blueprint.mutable.MutableBeanProperty</code> " when deploying bundle that uses JPA
ENTESB-357	Error installing <code>servicemix-saxon</code>
ENTESB-358	<code>servicemix-http</code> can not be started out of the box
ENTESB-361	<code>jpa-hibernate</code> feature is broken
ENTESB-370	Error creating a fabric from ESB distros
ENTESB-371	<code>CxfBcProvider</code> throws <code>NullPointerException</code>
ENTESB-372	<code>nmr</code> commands are broken
ENTESB-375	add <code>javax.xml.stream</code> package for jre6 system bundle
ENTESB-379	Several <code>FactoryFinder.class.getClassLoader()</code> will return <code>NULL</code> when loaded by the bootstrap classloader
ENTESB-400	<code>NullPointerException</code> in CXF when running on AIX
ENTESB-413	The combination of the transacted DSL together with the <code><setHeader></code> or <code><setBody></code> prohibits to resolve the properties properly

Issue	Description
ENTESB-415	Password for client script is output to the terminal
ENTESB-418	activemq-camel - This feature is not listed as installed out of the box in the full-esb
ENTESB-423	SecureSoap example fails with a <code>javax.xml.ws.soap.SOAPFaultException</code>
ENTESB-426	Exception on startup of FuseESB when eventadmin feature is installed with featuresboot on clean instance
ENTESB-431	REST secure example - Is broker after the security restrictions
ENTESB-432	Secure SOAP Example is broken
ENTESB-433	Transaction feature has bundles in failed state
ENTESB-435	<code>ComponentDefinitionException</code> in servicemix-http component
ENTESB-436	Fuse ESB Enterprise has 2 user properties files
ENTESB-438	Starting Fuse ESB says .. while Fuse Fabric is loading
ENTESB-439	<code>javax.management.InstanceAlreadyExistsException: org.apache.activemq:BrokerName=root,Type=Broker</code>
ENTESB-441	FAB - Logs WARN about unknown postfix for maven repo ids
ENTESB-443	<code>features:install jbi</code> and <code>servicemix-*</code> component install hangs
ENTESB-447	secure-rest example - Fails with Caused by: <code>java.lang.ClassNotFoundException: org.apache.karaf.jaas.boot.principal.RolePrincipal</code> not found by <code>org.apache.cxf.cxf-rt-transport-http</code> [179]
ENTESB-452	Worng feature name in fuse-esb-medium profile - <code>activemq-camel</code> vs. <code>camel-activemq</code>
ENTESB-459	Creating fabric on root container starts 2 brokers
ENTESB-460	osgi:install fails for secure-soap example on Windows
ENTESB-461	Minimal distros for 7.1 is 50% larger than 7.0.2
ENTESB-462	Full install contains multiple versions of the same jar
ENTESB-463	Numerous features won't install

Issue	Description
ENTESB-464	fabric:create returns "Provider org.apache.xerces.impl.dv.dtd.DTDDVFactoryImpl could not be instantiated: java.lang.NullPointerException" on RHEL and Linux
ENTESB-466	The servicemix-http feature has org.apache.servicemix.bundles.jetty-6.1.26_3.jar
ENTESB-467	serverGracefulTimeout in the servicemix-http.xml blueprint
ENTESB-477	secure-soap example deployment fails - Could not find artifact cglib:cglib-nodep:jar:2.2.2
ENTESB-483	shade plugin cannot handle SAXONICA.RSA/SF in saxon-9.4.0.4_1.jar
ENTESB-454	jruby.jar as shipped with Fuse ESB Enterprise exposes CVE-2012-5370
ENTESB-499	Progress bar sometimes goes backwards
ENTESB-503	New saxon depends on xmlresolver and the camel-saxon and servicemix-saxon features lack of that dependency
ENTESB-504	Ensure admin service always load storage file instance.properties before each operation

Messaging

Table 5.2 on page 22 lists the issues resolved between 7.0.2 and 7.1.

Table 5.2. Messaging Issues Resolved in 7.1

Issue	Description
ENTMQ-11	Remove activemq:create-broker command
ENTMQ-60	/bin/stop fails to stop Fuse MQ Enterprise if it's trying to become a master
ENTMQ-69	Broker configuration <code>persistent="false"</code> ignored when message says it should be persistent
ENTMQ-79	mq-create --create-container tries to create child using wrong parent container
ENTMQ-90	Installing Fuse MQ Enterprise as a service using the command line installer does not work

Issue	Description
ENTMQ-94	activemq and mq webconsole listed in the features
ENTMQ-107	Incorrect transaction feature version range
ENTMQ-108	Need to upgrade the xbean version
ENTMQ-115	<code>org.apache.kahadb.index.BTreeIndexTest.testRandomAddRemove</code> fails on AIX
ENTMQ-116	Provide xsd with the distribution in the Maven repository
ENTMQ-120	mq-web-console - 500 and 404 handling needs re-branding
ENTMQ-121	mq-web-console - scheduler and slave .jsp show strange behavior when hovering on Support link
ENTMQ-122	Can't log into mq web console
ENTMQ-123	CNFE when sending message through web console
ENTMQ-124	Regression to durable subscriptions that use <code>pendingDurableSubscriberPolicy</code>
ENTMQ-130	The <code>mq-base</code> profile does not provide security out-of-the-box
ENTMQ-131	Creating a broker with the <code>mq</code> profile fails
ENTMQ-132	Exception occurs trying to access the web console
ENTMQ-134	mq-create is not working with security introduced
ENTMQ-135	webconsole - exception when selecting Topic Views
ENTMQ-136	Typo in command in readme
ENTMQ-137	Fabric discovery agent cannot connect to secured zookeeper
ENTMQ-139	Authenticated mq-web-console user with invalid <code>activemq.jmx.user</code> credentials error page XML view is problematic
ENTMQ-148	<code>NullPointerException</code> when using mq-create to create master-slave brokers
ENTMQ-152	<code>etc/*-mq.properties</code> included in error
ENTMQ-153	Typo in <code>readme.txt</code>

Issue	Description
ENTMQ-154	fabric:create and <code>mq</code> profile - issues at startup - cce and mbean exists
AMQ-1132	activeio test package inclusion and logging properties
AMQ-1706	Out of date javadoc for <code>org.apache.activemq.ActiveMQConnectionFactory.setDispatchAsync@param</code> , the default value is <code>true</code> on trunk
AMQ-1719	Resource adapter stops consuming messages after broker is forcefully stopped/restarted during XA transaction
AMQ-1885	The JDBC <code>lockKeepAlive</code> thread should be started only if current broker instance successfully started and became a master
AMQ-1899	Sending without entering a queue name creates an empty queue with a message in it
AMQ-1902	<code>org.apache.activemq.broker.region.cursor.CursorQueueStoreTest</code> often fails
AMQ-2200	<code>TopicSubscriptionView</code> returns -1 for <code>SessionId</code> and <code>MaxPendingQueueSize</code>
AMQ-2240	Please add validation of unknown or invalid URI parameters for Camel <code>ActiveMQComponent</code>
AMQ-2430	Embedded RESTful fileserver does not close files when PUT method is called
AMQ-2453	<code>start/control-script</code> is not suitable for professional environments
AMQ-2502	<code>activemq-camel</code> is missing an optional <code>Import-Package</code> for <code>org.apache.activemq.pool</code>
AMQ-2524	Messages are lost and no exception raised when queue is deleted and created by another process
AMQ-2528	<code>org.apache.activemq.broker.region.Queue#removeMatchingMessages(String selector)</code> does not allow an empty string as a selector, but empty string is a valid JMS message selector
AMQ-2584	Message store is not cleaned when durable topic subscribers are refusing messages

Issue	Description
AMQ-2656	<code>ActiveMQInitialConnectionFactory</code> cannot return an <code>XAConnectionFactory</code>
AMQ-2665	Durable subscription re-activation failed when <code>keepDurableSubsActive=true</code>
AMQ-2730	Transport failed: <code>java.io.EOFException</code>
AMQ-2801	On start-up, durable subscriber ignores Selectors when calculating pending queue size
AMQ-3004	Build-up of unwanted messages
AMQ-3012	<code>HttpTunnelServlet</code> incorrectly swallows exceptions during transport creation
AMQ-3014	<code>DemandForwardingBridgeSupport</code> can send <code>BrokerInfo</code> to remote transport before local broker ID is known
AMQ-3023	<code>DestinationView.browseMessages(String)</code> must not call <code>OpenTypeSupport.convert()</code>
AMQ-3031	Time synchronization solution
AMQ-3157	Garbage collecting inactive destinations does not work with queue mirroring
AMQ-3168	In the broker XSD, boolean attributes should permit value injection via Spring's <code>PropertyPlaceholderConfigurer</code>
AMQ-3214	"InactivityMonitor Async Task" threads leaking
AMQ-3274	Duplicate messages on temporary topics in network of brokers
AMQ-3285	<code>ActiveMQXAConnectionFactory</code> does not respect various parameters for redelivery policy
AMQ-3292	KahaDb Transaction iterator remove doesn't throw <code>RuntimeException</code>
AMQ-3301	<code>LockFile</code> in-jvm check is not thread-safe
AMQ-3319	A possible browsing concurrency issue in <code>org.apache.activemq.broker.region.Queue</code>
AMQ-3324	<code>ActiveMQ.Advisory.xxxxxx.TempQueue.xxx</code> , <code>AMQ.A.xxx.Queue.xxx</code> and <code>AMQ.A.xxx.Topic.xxx</code> Topics

Issue	Description
	don't get removed when the originating tempQueue, Queue or Topic is removed
AMQ-3342	Shutdown of broker waiting for shared filesystem lock blocks
AMQ-3359	UDP Transport connector listens on a random port number
AMQ-3405	DLQ messages moved/copied into original queue disappear after failing processing for a second time
AMQ-3414	InactiviryMonitor Async Task thread overflow when date changes
AMQ-3426	<code>AbstractRegion.java</code> has incorrect null check in constructor
AMQ-3427	Activemq-trunk does not compile with JDK7
AMQ-3434	Contention in PLlist creation results in NPE on load - <code>FilePendingMessageCursor</code>
AMQ-3443	checkpoint contention with large transaction write using temp file
AMQ-3445	<code>jdbcPersistenceAdapter</code> will lose existing queues after a broker restart
AMQ-3455	Broker may deadlock when creating queues under load with wildcard consumers
AMQ-3463	Sync pom and osgi metadata
AMQ-3466	<code>IndexOutOfBoundsException</code> in kahadb with large number of subscriptions and pending messages
AMQ-3470	Unable to pick up messages anymore, messages are lost - Looking for key xyz but not found in fileMap
AMQ-3488	Temporary destinations' <code>DestinationInfo</code> commands over VM transport prevent connection closure
AMQ-3490	<code>NullPointerException</code> during message processing, using <code>FileCursor</code>
AMQ-3501	Stomp v1.1 support, headers, eg: message-id, are not properly escaped
AMQ-3506	Access to <code>ConnectionPool.createSession</code> needs to be synchronized

Issue	Description
AMQ-3513	initialReconnectDelay is ignored for Failover transport
AMQ-3514	MessageListenerServlet does not clear the timer on destroy
AMQ-3516	Failover Transport MessageAck commands aren't filtered in oneway
AMQ-3517	Failover transport will never call transportResumed when it reconnects to a hot backup transport
AMQ-3518	MessageServletSupport request body does not check the content-type in an intelligent way
AMQ-3537	ClassLoadingAwareObjectInputStream cannot handle de-serializing proxies with mixed JDK & non-JDK interfaces
AMQ-3543	STOMP connector: unexpected reply-to value for remote temporary topic
AMQ-3547	Calling Connection.close() on interrupted thread generates InterruptedException and leaks Connection
AMQ-3556	HTTP transport not playing nice with compression and sending TextMessage
AMQ-3568	Consumer auto acking of duplicate message dispatch can lead to Unmatched acknowledge: and redelivery
AMQ-3576	ProducerBrokerExchange last producer sequenceId initialization needs runtime updates to deal with possible duplicate resends
AMQ-3581	Web Console: escape link urls
AMQ-3590	activemq-web REST servlet support for JMSType is broken due to a typo
AMQ-3599	JaasDualAuthenticationPlugin, java.net.BindException: Address already in use on shutdown with pending connections

Issue	Description
AMQ-3600	Failover reconnect bypasses <code>DestinationPathSeparatorBroker</code> generating invalid destinations
AMQ-3601	When using HTTP transport XStream cannot construct <code>org.apache.activemq.util.ByteSequence</code> as it does not have a no-args constructor
AMQ-3606	Features descriptor should define the namespace
AMQ-3607	Setting <code>OptimiseAcknowledge</code> on a queue with a prefetch limit causes normal/fast consumers to miss messages when a slow consumer is blocking
AMQ-3618	When using Openwire with <code>cacheEnabled=false</code> memory is wasted on <code>unmarshallCache[]</code> and <code>marshallCache[]</code>
AMQ-3628	AMQ3567Test doesn't clean up appender after AMQ-3623 update
AMQ-3635	<code>JmsTopicConnector</code> checks for presence of <code>localClientId</code> then uses <code>outboundClientId</code>
AMQ-3649	<code>NullPointerException</code> when KahaDB fails to store to journal with <code>EOFException</code>
AMQ-3651	If the broker binds RMI registry port when it starts up, the broker should release RMI registry port when it shuts down
AMQ-3653	content-length header should be considered only for SEND frames
AMQ-3664	Not all messages will be acknowledged when <code>optimizeAcknowledge</code> is true
AMQ-3665	Velocity's <code>IntroSpectionCache</code> causes <code>OutOfMemoryError</code> on large AMQ stores when running activem-admin journal-audit
AMQ-3673	Unexpected behavior in failover transport when hosts are unknown

Issue	Description
AMQ-3674	<code>TopicRegion</code> removes <code>durableScriber</code> from <code>durableSubscriptions</code> when it is active; but leaves subscription on topic
AMQ-3675	Removing a <code>DurableTopicSubscription</code> leaves subscription in active subscriptions map
AMQ-3678	Active durable topic consumer is not re-assigned to topic after it is deleted and recreated
AMQ-3679	Bad OSGi metadata for activeio-core introduced with fix for AMQ-3461
AMQ-3680	Cleanup of temporary destinations by <code>PooledConnection</code> and <code>ConnectionPool</code> either leaks temp dests or deletes too many
AMQ-3681	<code>DatabaseLocker</code> should first cancel locking SQL statement before closing the SQL connection
AMQ-3684	Potential deadlock in vm transport <code>setListener</code> when sender is blocked pending space
AMQ-3709	Patch to fix invalid XHTML in web-console's 404 and 500 pages
AMQ-3719	Tracked command <code>IOException</code> causes failover transport to hang until failure occurs for untracked command
AMQ-3727	activemq-web-console: <code>AjaxServlet</code> not working in OSGi container
AMQ-3735	Java service wrapper <code>\${activemq.conf}</code> not found
AMQ-3737	Possible leak in <code>ManagedRegionBroker</code> <code>unregisterDestination</code>
AMQ-3743	activemq-web-console WAR with SNAPSHOT dependencies breaks osgi <code>Bundle-ClassPath</code> in manifest
AMQ-3753	Exception on stopping the broker - Timer already cancelled
AMQ-3782	Failover transport throws <code>NullPointerException</code>
AMQ-3785	<code>ActiveMQSslConnectionFactory</code> does not detect SSL request in failover URLs when creating transports

Issue	Description
AMQ-3791	Flexibility, concurrency, security, and compatibility issues in <code>CachedLDAPAuthorizationMap</code>
AMQ-3797	<code>org.apache.activemq.util.StringArrayEditor</code> causes classloader leaks
AMQ-3802	Successful unsubscribing should not report inactive durable topic subscribers
AMQ-3803	<code>ActiveMQWASInitialContextFactory</code> throws <code>ClassCastException</code> in WebSphere 8
AMQ-3804	<code>NullPointerException</code> logged every 30 seconds while attempting to clear expired messages
AMQ-3807	MBeans are not unregistered under WebSphere
AMQ-3812	activemq-core won't deploy in Karaf, missing fusesource imports
AMQ-3817	Marshaled properties don't get updated if modified during <code>preProcessDispatch</code>
AMQ-3819	High CPU usage with <code>stomp+nio+ssl</code> and many subscriptions
AMQ-3828	<code>URISupport</code> incorrectly handles parenthesis
AMQ-3831	Exit code is not properly returned when using <code>RUN_AS_USER</code>
AMQ-3835	Stomp 1.0 protocol read ACK broken on ActiveMQ 5.6.0
AMQ-3836	Stomp 1.0 protocol SUBSCRIBE destination broken on ActiveMQ 5.6
AMQ-3841	mKahaDB causes <code>ArrayIndexOutOfBoundsException</code> on restart after deleting existing queues
AMQ-3842	Test units should run discovery mechanism via loopback device
AMQ-3845	<code>CachedLDAPAuthorizationMap</code> doesn't handle the ldap connection dying
AMQ-3849	Typos in protobuf specs + generated Java code for KahaDB

Issue	Description
AMQ-3852	Stomp transport allows durable topic subscriber to subscribe to a queue
AMQ-3853	Missing import in activemq-web-console
AMQ-3854	Referencing old Spring XSD in configuration files
AMQ-3855	MQTT doesn't translate wildcards to ActiveMQ wildcards
AMQ-3856	MessageServlet assumes TextMessages contain Text
AMQ-3857	MessageServlet GET messages do not return JMS message Properties
AMQ-3858	Failure to resolve local JMX URL for sunJmx can result in <code>NullPointerException</code>
AMQ-3863	XA session is returned twice to the pool
AMQ-3865	AjaxTest fails all tests due to line ending differences
AMQ-3867	Unable to delete messages whose original destination is virtual topic from Web console
AMQ-3879	Temporary queues may be deleted by the wrong connection
AMQ-3885	ActiveMQ java client doesn't scale to thousands of queues
AMQ-3887	Occasional <code>NullPointerException</code> during <code>NetworkConnector</code> connection
AMQ-3889	Body preview of <code>BytesMessages</code> change when browsed multiple times from <code>QueueViewMbean</code>
AMQ-3896	AMQ3622Test throws <code>NumberFormatException</code> on ec2/ubuntu 10.04
AMQ-3897	Stomp 1.1 keep alive does not work with <code>stomp+nio</code>
AMQ-3903	Failed to fire fast producer advisory, reason: <code>java.lang.NullPointerException</code>
AMQ-3905	activemq:create-broker Karaf command only results in a locally visible broker
AMQ-3908	<code>StompSslAuthTest.testSubscribeWithReceiptNotAuthorized()</code> fails
AMQ-3912	Durable subscribers store messages in error with broker attribute <code>persistent="false"</code>

Issue	Description
AMQ-3920	Performance issue with delay policy in <code>DestinationBridge.onMessage</code>
AMQ-3923	Webconsole should import <code>javax.servlet.*</code> too
AMQ-3925	Advisory messages/topics not generated for <code>ActiveMQ.Advisory.FULL</code> or <code>ActiveMQ.Advisory.FastProducer.Queue</code>
AMQ-3927	Can't connect to Stomp 1.1 using telnet
AMQ-3929	Stomp multiple header handling incorrect per the 1.1 spec
AMQ-3932	<code>receiveNoWait</code> hangs when broker is down, using failover and <code>prefetch=0</code>
AMQ-3934	<code>QueueViewMBean.getMessage</code> throws <code>NullPointerException</code> when message not found
AMQ-3939	FailoverTransport never closes backup connections
AMQ-3953	<code>org.apache.activemq.util.URISupport.isCompositeURI</code> doesn't work properly
AMQ-3954	Intended delivery mode for <code>JMSUsecaseTest</code> is not tested
AMQ-3958	<code>META-INF/spring.schemas</code> does not contain a reference to 5.6.0 schema
AMQ-3961	Durable subscriber only receives part of the persisted messages on re-connect
AMQ-3976	<code>ActiveMQMessageProducer::send</code> uses <code>==</code> instead of <code>equals</code> to compare destinations
AMQ-3979	AjaxServlet preventing Tomcat Container from shutting down
AMQ-3981	<code>ActiveMQSslConnectionFactory.java</code> now has an Apache commons dependency
AMQ-3988	<code>PooledSession</code> throws an Exception at closing
AMQ-3989	<code>ActiveMQSslConnectionFactory.setKeyAndTrustManagers</code> does not work with failover enabled
AMQ-3994	<code>DefaultDatabaseLocker</code> will leak pooled connections on link failure

Issue	Description
AMQ-3997	Memory leak in activemq-pool
AMQ-4001	activemq karaf feature uses different commons-lang than pom
AMQ-4002	Instance of <code>BlobTransferPolicy</code> and its URL are being shared among multiple messages
AMQ-4007	BrokerService TempUsage and StoreUsage default values are incorrect
AMQ-4017	Demand forwarding bridge uses value of <code>asyncDispatch</code> for advisory consumers
AMQ-4020	MessageStore <code>IOExceptionHandler</code> needs to deal in <code>StoreExceptions</code>
AMQ-4021	<code>jdbc TransactionContext</code> close does unnecessary checks on <code>autocommit</code>
AMQ-4031	BrokerFactoryBean logs error when starting a non persistent broker
AMQ-4033	Broker uses custom <code>RMIServerSocketFactory</code> class which cannot be unloaded due socket reuse
AMQ-4035	Null pointer in <code>KahaDBStore</code>
AMQ-4043	Web demo - Receive a message page renders an error page
AMQ-4044	Shutting down AcitveMQ broker started in foreground logs 2 times
AMQ-4047	activemq-optional should include the JARs it needs
AMQ-4058	HTTP transport should remove options in URI
AMQ-4062	<code>durableTopicPrefetch</code> attribute in <code>policyEntry</code> in <code>activemq.xml</code> does not take effect
AMQ-4070	<code>catstomp.rb</code> does not work anymore
AMQ-4076	<code>sizePrefixDisabled</code> and/or <code>maxFrameSize</code> change in Apache ActiveMQ 5.6 broke <code>FilePendingMessageCursor</code> for big messages
AMQ-4080	Integrate the FuseSource LevelDB module into the Apache ActiveMQ build

Issue	Description
AMQ-4084	Linux/Unix files have incorrect EOL when packaged
AMQ-4103	LeaseDatabaseLocker can not be changed from 5 sec poll
AMQ-4104	STOMP 1.1 CONNECTED frame has erroneously encoded headers
AMQ-4108	Cannot receive <code>ActiveMQ.Advisory.MasterBroker</code> messages when master dies and slave takes control
AMQ-4110	Web console can't send messages to the secured broker
AMQ-4115	Make sure there's no XSS in web demos
AMQ-4122	Lease database locker failover broken
AMQ-4142	<code>SimpleAuthenticationPluginTest</code> hangs intermittently
AMQ-4158	<code>BTreeIndexTest</code> hangs when run on Windows
AMQ-4166	Redelivery plug-in causes a deadlock with <code>JobSchedulerImpl</code>
AMQ-4179	Can't install activemq-extra feature
AMQ-4186	Web console XML views have duplicate contenttype headers - jsp errors
AMQ-796	Client may shutdown when failover connection is reconnecting
CAMEL-3458	Bindy should support clipping fields if they exceed maximum length allowed when using fixed length
MB-1002	<code><destinationPathSeparatorPlugin/></code> is not recognized
MB-1008	Exploring JMS examples contains a duplicate type when build all examples in an IDE
MB-1013	Tomcat 6 complains that ActiveMQ doesn't shutdown a thread
MB-1028	<code>NullPointerException</code> when networked broker sends certificate with an invalid user name
MB-1029	Unable to generate unique id when range of ports are blocked

Issue	Description
MB-1030	mKahaDB configuration causes <code>activemq-data\mKahaDB\txStore</code> directory to be created from where <code>activemq</code> script is invoked
MB-1032	<code>NullPointerException</code> in <code>LastImageSubscriptionRecoveryPolicy</code>
MB-1035	<code>NullPointerException</code> when starting broker followed by immediate <code>NullPointerException</code> when stopping
MB-1036	ActiveMQ failover Denial of Service
MB-1039	temp queues looping between networked brokers
MB-1040	STOMP "reply-to" headers have extra info prepended by the broker
MB-1041	After receiving exception "Async error occurred: <code>javax.jms.JMSException: The destination temp-queue://ID-xxxx</code> does not exist", broker tore down network connection and re-created the network bridge
MB-1043	<code>NullPointerException</code> while loading node from <code>kahadb</code> during <code>vmcursor</code> replay
MB-1045	Purge command does not accept message selectors
MB-1046	<code>java.lang.NegativeArraySizeException</code> when starting the broker
MB-1047	Virtual Topic Subscriber and Individual Dead Letter Queue Handling
MB-1049	Setting <code>ACTIVEMQ_USER</code> may result in permissions error on the some created files
MB-1050	activemq-admin not setting username & password on JMS Connection used by activemq-admin browse
MB-1052	<code>fileQueueCursor</code> does not support message priority
MB-1053	Examine size of temporary transaction files written to disk
MB-1054	Wrapper scripts configuration needs adjusting with respect to <code>chkconfig</code> and <code>wrapper.java.library.path.1</code>

Issue	Description
MB-1058	<code>NullPointerException</code> when querying a starting broker use JMX program
MB-1067	Space at end of queue name is not honored by consumers
MB-1070	Failover using a JDBC Message Store and Virtual Topic can result in a lost message if queue is empty
MB-1072	<code>ConcurrentModificationException</code> in <code>org.apache.activemq.broker.region.Queue.iterate()</code>
MB-1073	Durable subscribers on durable topics don't receive messages after network disconnect
MB-1074	Connecting to Fuse MQ Enterprise using stomp from telnet issue
MB-1075	Fix Jetty security hole in ActiveMQ 5.5.x
MB-1085	<code>activemq-all.jar</code> is missing the <code>slf4j-log4j12</code> dependency
MB-1086	Network connector leaks when <code>conduitSubscriptions="true"</code>
MB-1087	activemq-admin browse help prints wrong argument name
MB-1096	Suspicious <code>NullPointerException</code> in log when network bridge cannot be established and <code>loggingBrokerPlugin</code> configured
MB-1098	Topic subscriber is assumed to be slow consumer when <code>prefetch</code> is set to one
MB-1102	JMX stats are off when a duplicate consumer ID is added when using failover URI
MB-1104	STOMP subscriber does not receive <code>TextMessage</code> with null body sent from JMS
MB-1105	<code>StompNIOTransport doStop</code> should check for null before calling <code>selection.stop()</code>
MB-1106	Repeated call to <code>PooledConnection.setClientID()</code> with the same client Id should not raise a

Issue	Description
	<code>IllegalStateException("Setting clientID on a used Connection is not allowed")</code>
MB-1108	Scheduled/Delayed messages lost during ungraceful broker shutdown
MB-1111	Composite destinations break simple authorisation through role aggregation
MB-1112	<code>DurableSubProcessWithRestartTest</code> intermittently throws <code>java.lang.ClassCastException: org.apache.kahadb.index.BTreeNode cannot be cast to org.apache.kahadb.index.ListNode</code>
MB-1115	Fuse MQ Enterprise JMX stats shows negative queue size
MB-1117	KahaDB journal files retained after delay in "unsubscribing" durable subscriber from topic
MB-1120	<code>NullPointerException</code> exception occurs when stopping broker
MB-1125	Please make <code>bstat</code> more tolerant of <code>InstancesNotFound</code> situations
MB-1129	Duplex option on network connector not supported
MB-1130	Non-persistent messages held in memory are not cleaned up when destination is deleted
MB-1133	In the <code>DurableSubProcessWithRestartTest</code> acknowledged messages appear to intermittently be redelivered to the subscriber
MB-1134	Why do we need to get the Size/Count of the Topic messages during consumer remove
MB-1136	<code>PendingMessages</code> not being dispatched to <code>DurableSubscriber</code>
MB-1140	Broker performance does not scale with multiple consumers when using JDBC persistence adapter
MB-1144	Invalid error: NACK received but connection is in v1.0 mode using a STOMP client

Issue	Description
MB-1152	The defined <code>SslContext</code> is not used by the https transport protocol
MB-1159	The current <code>sslContext</code> element does not provide the ability to define the keystore key password key
MB-1161	<code>CachedLDAPAuthorizationMap</code> can't reconnect to LDAP Server if the LDAP server was temporarily down
MB-1164	The <code>MirroredQueue</code> feature uses the <code>Topic MemoryUsage</code> instead of the <code>Queue MemoryUsage</code> when forwarding the message to the queue after sending it to the Topic
MB-1167	Investigate startup deadlock with vm transport
MB-1169	Broker should not send advisories for slow consumers or fast producers if the destination in question is an advisory destination already
MB-1173	Broker sends a <code>RECEIPT</code> frame although the subscription fails
MB-1174	The JMX message move, copy and remove operation do not take messages in FIFO order
MB-1175	Messages sometimes not received by active subscription
MB-1176	JMX connector does not bind to a specific port when a <code>connectHost</code> is specified on the <code>managementContext</code>
MB-1179	Fuse icon file <code>webapps/favicon.ico</code> is broken
MB-1180	Add ability to set a timeout for the calls made to Broker MBeans
MB-1185	JConsole <code>browse()</code> function does not work if <code>useCache=false</code>
MB-1186	Duplicated durable subscriptions after broker restart with option <code>keepDurableSubsActive=true</code>
MB-1190	<code>data.db</code> size is not included in calculation to monitor <code>systemUsage</code> settings
MB-1196	Remove the synchronized definition from the <code>ActiveMQEndpointWorker</code> anonymous <code>Work</code> instance

Issue	Description
MB-1197	Race condition with StompServlet and transport listener for websockets
MB-1198	data.db is not cleaned up properly when durable subscribers come and go off-line
MB-1199	<code>NullPointerException</code> exception in kahadb after index issue
MB-1200	<code>NetworkBridgeFilterFactory</code> should be assigned to Queue not <code>NetworkBridge</code>
MB-1203	Expired msgs not getting acked to broker causing consumer to fill up its prefetch and not getting more msgs
MB-1207	<code>ActiveMQConnection</code> temp advisory consumer should respect <code>asyncDispatch</code> flag - can cause deadlock with slow consumers
MB-1208	Enqueue counts with <code>jms.prefetchPolicy.all=0</code>
MB-1211	When durable subscriber is stopped and then reconnects, messages are consumed but the pending queue count seems to stay 1 plus prefetch size or at prefetch size
MB-1212	<code>BlobJDBCAdapter</code> has invalid SQL for <code>addStatements</code>
MB-1214	Closing a <code>PooledConnection</code> does not seem to return associated sessions to the <code>SessionPool</code>
MB-1220	Web sockets demo fails when using localhost in connect uri
MB-1224	<code>ExpiredMessages > Prefetch Queue</code> results in messages no longer being dequeued
MB-1226	Infinite <code>TemqQueue</code> advisory messages
MB-1229	Unable to configure memory limit on temporary topics
MB-1231	db.data file exhibiting abnormal growth
MB-1234	Killing <code>ws://</code> connection after it has timed out (<code>websocket.maxIdleTime=1000</code>) from browser results in MBean Connection-> <code>ws_sockets</code> not being cleaned up
MB-1238	Problem with STOMP NIO + SSL

Issue	Description
MB-1239	NIO + SSL: Client certificates are null
MB-1241	Missing some binary files in the release kit
MB-1248	Questionable processing of interruptions in <code>TcpTransport::doStop</code>
MB-851	Authorization failing with Open LDAP
MB-864	Intermittent performance degradation JDBC in the persistence adapter when a durable subscriber of priority messages falls behind
MB-884	Forwarded message cannot be distributed to the original broker
MB-885	Avoid stuck messages in a network of brokers
MB-894	Invalid data sent to <code>nio://</code> throws <code>OutOfMemoryException</code> and may crash the broker
MB-903	STOMP Connection MBean fails to register
MB-907	Stomp consumer might not receive all msgs of a queue
MB-912	Unable to access <code>Serializable</code> class when receiving <code>ObjectMessage</code> in OSGi environment
MB-914	Fuse MQ Enterprise not stopping via JMX on AIX platform
MB-915	Investigate scalability of JDBC topic store with regards to durable subscriptions
MB-916	Expose <code>isSlowConsumer</code> for <code>SubscriptionView</code>
MB-918	Connections web console page shows two rows per connection
MB-919	<code>staticallyIncludedDestinations</code> should always be forwarded
MB-922	Broker restart fails with <code>java.io.OptionalDataException</code> when trying to recover <code>ProducerAudit LRUCache</code>
MB-923	Implement eviction strategy based on property value uniqueness
MB-926	Broker may deadlock when creating queues under load

Issue	Description
MB-927	Change Transport Failed message from INFO to WARN level
MB-929	Some brokers connections cannot be killed
MB-931	Web console shows incorrect number of messages for topic
MB-932	activemq-web: <code>SessionPool.returnSession()</code> should discard sessions that are closed
MB-934	Cannot publish to a deleted temp-queue destination
MB-936	Change way Broker MBean name is generated so that port is not used
MB-940	Unable to create durable subscriber with JMS selector using admin console
MB-945	Numeric selectors do not work in STOMP
MB-950	The persistent Stomp header is not part of a received <code>StompFrame</code> message
MB-953	Stomp subscription with receipt on an existing queue hangs
MB-954	Incorrect JMX properties after consuming messages using Stomp
MB-957	Stomp RECEIPT frame sent twice for the same msg causing error in STOMP consumer
MB-964	Large number of expiring messages causing QueueSize to grow
MB-966	DLQ from a durable subscriber filling with expired messages results in non-expired messages not being read
MB-970	Problem with static List <code>ENDED_XA_TRANSACTION_CONTEXTS</code> in <code>org.apache.activemq.TransactionContext</code>
MB-971	Transport scheme NOT recognized: [http] in an osgi environment
MB-974	<code>./activemq</code> script cannot be started on Solaris OS 10
MB-977	ORA-01465: invalid hex number when using Oracle backend in the latest releases

Issue	Description
MB-978	<code>NullPointerException</code> in <code>TraceBrokerPath</code> plug-in
MB-979	<code>NetworkConnector</code> MBean unregistration can fail with a transport disconnect and leave a dangling mbean
MB-980	Display issue viewing queues in jmx and admin console when using Oracle DB as a backend
MB-982	Failover issues in network connector
MB-985	<code>TimeStampingBrokerPlugin</code> causes messages to expire in DLQ queue
MB-991	When a producer from a network bridge is blocked by producer flow control, all producers from the network bridge get blocked
MB-992	<code>NullPointerException</code> in KahaDB on stopping during broker restart
MB-996	<code>NullPointerException</code> on websocket connection
MB-998	<code>InterruptedException</code> in <code>InactivityMonitor</code>
MB-778	Deleting a Queue from the console results in lost messages
MB-798	Problem with distributed XA Camel/ActiveMQ recovery
MB-699	Temporary queues create advisory topics without bound
AMQ-3945	<code>QueueBrowser</code> missing messages on first browse
AMQ-3947	<code>ActiveMQConnectionFactory</code> doesn't set the <code>nestedMapAndListEnabled</code> property on new Connections
MB-1089	Syntax errors are not showing up in the log when the broker is started in the background
AMQ-1853	Optional non-blocking redelivery
AMQ-2834	Producers blocks when global <code>storeUsage</code> is smaller than persistent adapter chunk size; should warn of incorrect configuration

Routing

[Table 5.3 on page 43](#) lists the issues resolved between 7.0.2 and 7.1.

Table 5.3. Routing Issues Resolved in 7.1

Issue	Description
CAMEL-3985	Name Part of the Sender & the Recipient Email Addresses are not encoded with the Exchange charset
CAMEL-4058	OnException should overlay settings with existing error handler
CAMEL-4171	Groovy language - <code>ClassNotFoundException</code> in OSGi environment
CAMEL-4513	Simple predicate fails to introspect the exception in an onException clause using onWhen
CAMEL-4546	Unable to run with "mvn tomcat:run" or in tomcat or jetty server
CAMEL-4556	NettyProducer creating new connection on every message
CAMEL-4842	Remove ProducerCache from CamelContext service list when shutting down a route
CAMEL-4870	Attachments is not propagated in the template components such as camel-stringtemplate
CAMEL-4871	Request with Content-Type= application/x-www-form-urlencoded throws "Cannot read request parameters due Invalid parameter, expected to be a pair but was " when body is empty
CAMEL-4872	Route Info Command Exchange Date <code>NullPointerException</code>
CAMEL-4877	API-breaking changes in Validator-component
CAMEL-4882	Timed out Exchanges should be removed from seda queues
CAMEL-4894	Parameter binding not working with <code>BeanExpression</code>
CAMEL-4896	Validation of camel-websocket feature failed
CAMEL-4900	Quartz component doesn't start with a persistent scheduler
CAMEL-4908	Twitter component fixes
CAMEL-4913	camel-blueprint - Using namespaces with xpath does not work as the namespaces is not parsed and injected into the camel model

Issue	Description
CAMEL-4915	Serialisation Data Format is unable to unmarshal in OSGi environment
CAMEL-4920	PollEnrich in default mode should block
CAMEL-4925	ThreadsProcessor configured with ExecutorService with DiscardPolicy or DiscardOldestPolicy leaves inflight exchanges for discarded tasks unprocessed
CAMEL-4938	ManagedBrowsableEndpoint are broken
CAMEL-4941	doStop() is called on Services which haven't been started when route autoStart=false
CAMEL-4942	exchange.getIn().getBody(<SomeClass>.class) throws an exception for Jaxb model objects
CAMEL-4945	CXF Producer calls done method of Camel callback several times
CAMEL-4947	Delay using bean does not work in XML DSL
CAMEL-4959	Incorrect caching type converter misses for NaN
CAMEL-4960	NettyProducer with user defined client pipeline factory
CAMEL-4970	Cannot use xquery predicate in filter after an xpath splitter
CAMEL-4976	Problem removing endpoints
CAMEL-4984	camel-http does not send header values that are empty strings
CAMEL-4986	ManagedPerformanceCounterMBean should extend ManagedCounterMBean
CAMEL-4988	Problems with Simple language
CAMEL-4989	BindyDataFormat should not use the default encoding
CAMEL-4996	DigitalSignatureEndpoint not clearing headers after verify
CAMEL-5000	Error handler not called when recipient list has non existing endpoint
CAMEL-5004	Camel simple language wrong working with real number
CAMEL-5005	simple without embedded text results in an NullPointerException

Issue	Description
CAMEL-5009	Can't use the resourceClass Parameter of CXF-RS Component
CAMEL-5023	Printer endpoint can only print a single job
CAMEL-5024	Streaming splitter ignores exception handling
CAMEL-5027	JMX statistics problem with some components
CAMEL-5033	Seda producer should not handover completions if waiting for task to complete
CAMEL-5036	Camel route with bean element sends on startup invalid message to target route that is represented by a proxy who exposes route
CAMEL-5038	Timer endpoint should support multiple consumers
CAMEL-5040	Thread pools should not be enlisted in JMX if part of adding a new route, and JMX is disabled for new routes
CAMEL-5041	Removing a route with route scoped error handler, should remove the error handler from JMX
CAMEL-5045	Memory leak when adding/removing a lot of routes with JMX enabled
CAMEL-5046	Memory leak when adding/removing a lot of routes with JMX enabled related to Tracer
CAMEL-5048	Memory leak in SedaComponent if adding and removing a lot of seda endpoints with different queue names
CAMEL-5049	Memory leak in TimerListener if JMX enabled
CAMEL-5051	NullPointerException when assigning a simple Object as final bean
CAMEL-5053	Using a custom thread pool profile does not work with EIP
CAMEL-5058	Unique endpoints leaking in DefaultInflightRepository
CAMEL-5060	camel-bam is not thread safe and throws ConcurrentModificationException
CAMEL-5063	NullPointerException in camel 2.9.1 validator
CAMEL-5066	JMX statistics problem with intercept()

Issue	Description
CAMEL-5070	Message Loss when using Weighted Round Robin LoadBalancer
CAMEL-5080	camel-jt400 - Parameter length when doing Program Call issue
CAMEL-5087	cometD component doesn't support multiple endpoints with different ports
CAMEL-5089	<code>InterceptSendToMockEndpoint</code> doesn't start or stop the producer which is intercepted
CAMEL-5097	Incorrect feature definition for camel-fop
CAMEL-5098	<code>Exchange.FAILURE_ENDPOINT</code> header points to incorrect endpoint with multicast
CAMEL-5102	Timer endpoint <code>getState</code> does not work in JMX
CAMEL-5107	cxfrs producer should retain the message headers when it gets the response
CAMEL-5115	<code>CxfBeanDestination</code> should copy the in message header to the out message
CAMEL-5116	<code>CxfDestination</code> should copy the in message header to the out message when it sends the message back
CAMEL-5122	RMI endpoint doesn't handle nested exception and raise <code>CamelRuntimeException</code> instead of <code>RemoteException</code>
CAMEL-5129	<code>interceptFrom()</code> doesn't work with property placeholders
CAMEL-5137	Timer component does not suspend
CAMEL-5138	HTTP component always use a <code>CachedOutputStream</code>
CAMEL-5142	<code>StAXConverter</code> is not threadsafe when not using Woodstox
CAMEL-5151	camel-netty psuedo proxy
CAMEL-5154	Simple language - OGNL - Invoking explicit method with no parameters should not cause ambiguous exception for overloaded methods
CAMEL-5157	Message <code>hasAttachments</code> need to populate initial attachments

Issue	Description
CAMEL-5161	If MyBatis experiences an error on commit (e.g. unique PK violation) it appears to hold the session open and cause DB writelock errors
CAMEL-5162	OnException - Handler or Continued predicate is invoked twice per exception
CAMEL-5163	If throttler or delayer expression evaluation throws exception then error handler is not used
CAMEL-5183	EndpointConfiguration - Looses parameters if there is a name clash with known tokens
CAMEL-5187	JMX issues on WebSphere
CAMEL-5193	Strange warning appears: WARN org.apache.camel.processor.DeadLetterChannel - Cannot determine current route from Exchange with id
CAMEL-5195	XSLTUriResolver fails to include from classpath under Windows
CAMEL-5196	SftpChangedExclusiveReadLockStrategy does not check the correct field to determine if a file is changing
CAMEL-5199	initialDelay and idempotentRepository Endpoint URI parameters fail to be read from Camel context when Turkish language is set in host operating system
CAMEL-5200	Potential dead-lock when shutting down Camel with NotifyBuilder doing notification
CAMEL-5201	Redelivery exhausted marker should be cleared by try catch EIP and when errorHandler handles the message
CAMEL-5210	Loop causes NullPointerException on error
CAMEL-5212	split().tokenizeXML("child", "parent").streaming() does not work correctly when parent's namespace declarations are separated with new line
CAMEL-5218	HazelcastComponent.doStop bombing out
CAMEL-5222	The file consumer should use the charset encoding when reading the file if configured
CAMEL-5223	Cannot find resource in classpath using OSGi blueprint

Issue	Description
CAMEL-5224	The done file got deleted, when using the file component even if noop property set to true
CAMEL-5225	camel-netty can't distinguish between Sharable and Unsharable codecs
CAMEL-5227	Camel 2.9.2 jetty component no longer works with Jetty 7
CAMEL-5229	camel-blueprint - Should not set empty location for properties component
CAMEL-5234	Spring-WS does neither set message body nor message headers if exchange is not outCapable
CAMEL-5235	Make sure to close file input stream when converting file to string to avoid locking file on windows
CAMEL-5246	File consumer - Widen check for exchange failed in case onException was used but without handling the exception
CAMEL-5248	Running camel:run with blueprint gets a <code>java.lang.NoClassDefFoundError: org.osgi.vendor.framework property not set</code>
CAMEL-5257	camel-jpa feature can not be installed out of box
CAMEL-5260	LDAP Component lose headers
CAMEL-5261	SEDA/VM requires completely same URI on producer and consumer side when consumer route is advised
CAMEL-5263	Cometd component does not pass EnableSessionHeaders parameter to CometdBinding properly
CAMEL-5265	Incorrect Content-Length returned for converted result objects with Unicode characters
CAMEL-5268	camel-restlet producer not passing along the Accept header
CAMEL-5277	Forgot a space between hours and minutes in <code>org/apache/camel/util/TimeUtils.java</code>
CAMEL-5279	camel-stream overwrites files instead of appending
CAMEL-5282	Strange race condition in for SEDA, when shutting down
CAMEL-5284	camel-stream should not close stream after each write
CAMEL-5300	The flatpack component is swallowing it's parsing errors

Issue	Description
CAMEL-5303	InOut over seda/vm with multiple consumers can cause a timeout exception
CAMEL-5309	Replies with Incorrect CorrelationIDs Received After Reinstantiating a Route with ActiveMQ Endpoint and Exclusive Reply Queue
CAMEL-5315	Camel-blueprint fails to install on Karaf 3 as it does not accept the version 1.0.0
CAMEL-5317	NettyConverter throws NullPointerException when Exchange is not set
CAMEL-5321	Validator Component Fails on XSD with classpath relative imports
CAMEL-5331	NullPointerException when using bare SOAP parameter binding with payload mode
CAMEL-5342	Shaded concurrentlinkedhashmap-lru conflicts with existing jar
CAMEL-5346	camel-solr feature missing the bundle for http4 client
CAMEL-5348	Uptime reported by Camel can be incorrect for values > 1 day
CAMEL-5355	camel-sql should support % sign in query
CAMEL-5357	URI normalization - Should detect already percent encoded values
CAMEL-5360	Camel features file doesn't validate
CAMEL-5363	camel-jms - Exception thrown from destination resolver should trigger Camel exception handling
CAMEL-5367	DefaultJettyHttpBinding should not convert binary HTTP body
CAMEL-5372	Shutting down one of the contexts breaks async redeliveries in others: RedeliveryErrorHandler has static reference to a thread pool
CAMEL-5378	recipientList and onException with useOriginalMessage not working as expected
CAMEL-5381	Exchange's headers lost after pass through dynamicRouter if the consume from activemq

Issue	Description
CAMEL-5391	specify <code>Export-Package</code> version for <code>wrap:mvn:org.fusesource.leveldbjni</code>
CAMEL-5401	Not all <code>RoutePolicy</code> callback methods are invoked
CAMEL-5405	CXF transport loses HTTP matrix parameters
CAMEL-5406	Threads EIP hangs Junit4 tests using <code>adviceWith</code>
CAMEL-5411	MQTT Endpoint does not correctly return the MQTT-Payload
CAMEL-5412	<code>ObjectAlreadyExistsException</code> when "redeploying" routes that uses <code>CronScheduledRoutePolicy</code>
CAMEL-5414	<code>SqsEndpoint</code> can't retrieve existing queue url with visibility timeout different than default
CAMEL-5415	Simple does not handle empty values in predicates properly
CAMEL-5417	Scala Archetype with incorrect Maven Eclipse configuration
CAMEL-5419	camel-soap - Sets wrong namespace for faults
CAMEL-5426	Camel stream makes Karaf console hang
CAMEL-5429	Sending null in body when forcing JMS message type to Object throws an Exception
CAMEL-5432	Dynamically added SEDA-route is not working
CAMEL-5437	Add support for batch consumer's empty messages to aggregator
CAMEL-5449	<code>CxfPayloadConverter</code> converts to <code>NodeList</code> by default, affecting performance
CAMEL-5451	Camel-Blueprint should wait for camel-core to be started since there is a strong dependency
CAMEL-5454	camel-example-gae silently fails
CAMEL-5456	Context scoped exception clauses incorrectly applying across <code>RouteBuilders</code>
CAMEL-5461	<code>IOConverter.toInputStream</code> opens a <code>BufferedReader</code> which will never be closed

Issue	Description
CAMEL-5464	camel-jms consumer doesn't send back a reply in all cases
CAMEL-5468	<code>RegistryBean.getBean()</code> is not thread safe
CAMEL-5470	camel-example-gae gtask doesn't work
CAMEL-5472	missing dependency to spring-web in camel-example-cxf-tomcat
CAMEL-5475	Can't unmarshal pgp messages encrypted with ElGamal
CAMEL-5485	camel-mybatis should do a proper transaction demarcation while reading/writing from/to database
CAMEL-5487	<code>HttpProducer</code> should close temporary file in <code>CachedOutputStream</code> when the <code>IOException</code> is thrown
CAMEL-5495	file endpoints on windows without volume name in the path url not working in some cases
CAMEL-5499	Cxf fallback convert should return the <code>Void.value</code> instead of null
CAMEL-5500	camel-testng - The spring base test class should use <code>@AfterMethod</code> on teardown as its parent does
CAMEL-5501	<code>@XPath</code> annotation should ensure cleanup after evaluation
CAMEL-5505	Unable to customize <code>URIResolver</code> in xslt component
CAMEL-5509	Jetty http consumer doesn't support the uri "jetty:http://localhost:9000"
CAMEL-5517	Multiple calls to CXF factory beans. <code>getFeatures</code> causing multiple logging features to be added
CAMEL-5518	Camel Proxy ignores camelContextId property in Spring configuration
CAMEL-5519	CamelContextId should be effected when there are more than two camel context in the spring configuration file
CAMEL-5525	Load balancing with "Random" policy is not halfway evenly distributed to endPoint with vast exchange
CAMEL-5526	"ThreadID is already used" exception under heavy load
CAMEL-5527	Maven archetype - Generates wrong plugin for surefire plugin

Issue	Description
CAMEL-5535	Multiple restlet routes of the same restlet URI but different VERBs does not work
CAMEL-5536	Possible issue in camel-apns - Reported on user forum
CAMEL-5537	Mina2 Consumer doesn't reliably work with SSL
CAMEL-5540	File consumer - NPE if configured to consume from root directory
CAMEL-5542	Timer component - Should defer scheduling tasks during startup of CamelContext
CAMEL-5543	Karaf Command 'camel:route-list' throws <code>NullPointerException</code>
CAMEL-5556	<code>HazelcastIdempotentRepository</code> is not thread safe
CAMEL-5564	Should shutdown management load task thread pool explicit
CAMEL-5570	<code>maximumRedeliveries</code> is inherited for other exceptions thrown while redelivering with <code>maximumRedeliveries(-1)</code>
CAMEL-5571	Camel proxies should not forward <code>hashCode()</code> method invocations
CAMEL-5574	camel-sftp's stepwise behavior to walk up and down relatively to avoid potential traversal issues
CAMEL-5580	The RowModel Data does not include the correct cell value type and some minor changes
CAMEL-5592	Logger Level is always at default level("ERROR") when error handler is <code>LoggingErrorHandler</code>
CAMEL-5595	http4 component should not assume the scheme by looking up the request address
CAMEL-5605	sftp component: Cannot acquire read lock for files in sub directories if property <code>recursive=true</code> and <code>readLock=changed</code>
CAMEL-5610	camel-hl7 bundle should specify the mina version
CAMEL-5620	JUnit <code>ConverterTest testFileToString()</code> fails
CAMEL-5621	<code>JettyHttpProducer</code> should close the input stream when the exception is throw

Issue	Description
CAMEL-5627	camel-zookeeper endpoints should not share the configuration
CAMEL-5631	<code>EventHelper.notifyRouteStarted</code> skips all remaining notifiers if one of the notifiers ignores route events
CAMEL-5632	<code>ObjectHelper.resolveUriPath</code> is broken, can not handle: <code>'../../../../'</code> correctly
CAMEL-5636	Enricher with async routing not handling exceptions thrown from <code>AggregationStrategy</code>
CAMEL-5641	<code>JmsBinding</code> does not handle <code>BigInteger</code> and <code>BigDecimal</code> properly
CAMEL-5644	Bean component - Should use try conversion when choosing method based on parameter type matching
CAMEL-5647	EIPs using custom aggregation strategy should fail if not possible to find in registry
CAMEL-5653	camel-hbase producer should be able to perform get with just the id as a header
CAMEL-5655	Camel Endpoint ignores <code>camelContextId</code> property in Spring configuration
CAMEL-5657	Recipient list EIP - Should shutdown thread pool if parallel mode enabled
CAMEL-5663	camel-blueprint - Should add check for bean scope in bean injector
CAMEL-5668	camel-jetty - A soap fault should trigger http response code 500
CAMEL-5670	camel-mqtt - <code>NullPointerException</code> when disconnected from broker
CAMEL-5681	Using recipient list in a <code>doTry ... doCatch</code> situation don't work properly
CAMEL-5683	JMS connection leak with request/reply producer on temporary queues
CAMEL-5686	While stopping, the <code>QuickfixjEngine</code> should unregister the <code>MBean</code> being registered for the <code>Initiator</code> at startup

Issue	Description
CAMEL-5693	camel-smpp - Consumer error handling is not correct
CAMEL-5694	camel-jms - Should also allow multiple consumers from multiple routes from the same queue
CAMEL-5699	LogFormatter throws a NullPointerException when all elements are disabled
CAMEL-5704	Split inside Split - Parallel processing issue - Thread is getting wrong Exchange when leaving inner split
CAMEL-5707	NotifyBuilder should be thread safe
CAMEL-5710	REST route returns response with http Status code 500 Internal Server Error when response has Last-Modified or Header-expires in header as string
CAMEL-5712	BlueprintCamelContext should not get started in the init() method but later when the blueprint container is fully initialized
CAMEL-5718	Bodies of SMs with 8-bit data_coding are mangled
CAMEL-5720	Aggregate EIP - Dynamic completion size should override fixed values if in exchange
CAMEL-5722	ClassLoader mixup when consumers across bundles share the same camel-jetty port
CAMEL-5729	camel-crypto - Signer producer should close input stream after usage
CAMEL-5730	SqsConsumer receive thread is tightly coupled to extendMessageVisibility's scheduled task
CAMEL-5731	Setting alphabet header to 8-bit doesn't update data coding
CAMEL-5732	Data coding of 0x02 not considered 8-bit
CAMEL-5733	NullPointerException with SpringBatchProducer and null header value
CAMEL-5735	SnsConfiguration's toString() uses amazonSQSClient as key string rather than amazonSNSClient

Issue	Description
CAMEL-5737	camel-ftp - LocalWorkDir option did not work as expected
CAMEL-5746	WireTap will always copy the origin Message
CAMEL-5747	Cold restart doesn't clear properties component cache
CAMEL-5756	OSGi resolvers for component, dataformat and language should check if service object is assignable before casting
CAMEL-5757	HTTP 1.1 Host header not set correctly with camel-http4
CAMEL-5761	Update SqsConsumer to extend Visibility Timeout correctly
CAMEL-5766	Configuring jetty component with a different name doesn't work with jetty consumer
CAMEL-5769	Camel JMS producer can block a thread under specific circumstances
CAMEL-5773	camel-twitter streaming consumer broken
CAMEL-5776	.camelLock is deleted by another Camel instance
CAMEL-5782	Invalid SetQueueAttributesRequest created
CAMEL-5794	xmljson dataformat should be added into marshal and unmarshal definition module
CAMEL-5796	The combination of the transacted DSL together with the <setHeader> or <setBody> prohibits to resolve the properties properly
CAMEL-5810	CXF + Code first + No recipient list + doCatch = route returns null
CAMEL-5818	Splitter does not allow errorHandler to handle exception in the splitter-expression
CAMEL-5823	CxfConsumer should not populate the cxf response with the original input message if the cxfExchange is oneway
CAMEL-5826	Splitter with tokenize doesn't work with namespaces
CAMEL-5830	NullPointerException in DefaultCamelContext::stopRouteService
CAMEL-5835	XPathBuilder is documented as being thread-safe, but it has thread-safety bugs

Issue	Description
CAMEL-5854	<code>adviceWith()</code> just needs to start the route when the camel context is started
MR-573	camelContext <code>autoStartup=false</code> and starting context programmatically doesn't work
MR-579	Camel http should disable HTTP TRACE by default
MR-586	Using Camel to route to CXF message alters the <code>Content-Type</code> header and drops encoding
MR-588	camel-jms component, request/reply results in <code>NullPointerException</code> when <code>JMSCorrelationID</code> is set to empty string on inbound JMS message
MR-589	<code>CxfProducer</code> should release the CXF client when the Producer is stopped
MR-590	Memory leak in the Message Router when instantiating dynamic routes
MR-601	<code>@handler</code> is ignored
MR-603	camel-cxf producer should keep the response detail when the exception is thrown
MR-609	Unable to write converted body to file using alternative character sets
MR-614	Route using jetty listener and http client corrupting binary/mime data as it passes through
MR-618	Using SSL context in blueprint XML does not work
MR-624	The camel aggregation example generates an error whenever the completion predicate is entered
MR-641	Spring schema is not up to date
MR-648	Camel HBase component raises a <code>NullPointerException</code> if the table name does not conform to the host name of a uri and incompatibilities between hbase versions
MR-651	Thread Java DSL doesn't provide full function out of box
MR-655	Camel HL7 bundle does not specify mina library version in its manifest

Issue	Description
MR-656	New SOAP/JAB marshaling doesn't include top class element in XML document
MR-658	Using <code>shareUnitOfWork</code> with <code>DeadLetterChannel</code> sending message to a route doesn't work as expected
MR-660	Stopping and starting a seda consumer leaks a thread each time
MR-670	Camel JMS problem parsing selectors

Web services

[Table 5.4 on page 57](#) lists the issues resolved between 7.0.2 and 7.1.

Table 5.4. Web Services Issues Resolved in 7.1

Issue	Description
CXF-2450	WSDL2java uses system encoding when generating java classes
CXF-2937	Character encoding in cxf-codegen is wrong
CXF-3505	CXF attachment isn't compatible with SUN's ACTIVATION library
CXF-3916	Partial response problem with SOAP 1.1 use of WS-Addressing
CXF-3949	<code>NoClassDefFoundError</code> when using CXF JAX-RS in OSGi environment
CXF-3989	<code>messageContext.setScope(MessageContext.HTTP_REQUEST_HEADERS, Scope.APPLICATION)</code> leads to <code>java.lang.IllegalArgumentException</code>
CXF-3993	WS-RM's blueprint configuration fails to parse <code>RMAssertion</code> entries
CXF-4002	Cannot override read-only parameter: <code>classesDirectory</code> in goal: <code>cxf-codegen:wsdl2java</code>
CXF-4006	Possible classloader leak due to <code>ThreadLocal</code>
CXF-4015	<code>wadl2java</code> : <code>xs:integer</code> param is generated as invalid type

Issue	Description
CXF-4016	JAX-WS schema generation of an Exception annotated with <code>@WebFault</code> that contains a property of a class annotated with <code>@XmlRootElement</code> causes the schema of the WSDL to generate the incorrectly
CXF-4017	<code>SchemaCollection.addCrossImports</code> handles only <code>XmlSchemaSequence</code> instead of all <code>XmlSchemaGroupParticle</code>
CXF-4018	JAX-WS Providers created from class instead of an actual instance bean do not get the <code>JAXWSMethodInvoker</code>
CXF-4023	Invalid <code>ProtocolVariant</code> causes <code>NullPointerException</code> in <code>RMSoapInterceptor</code>
CXF-4027	Aegis <code>BeanType</code> does not ignore super type of <code>java.lang.Enum</code>
CXF-4029	<code>cxf-codegen-plugin</code> doesn't generate any code code when the <code>wsdl</code> parameter is an url
CXF-4031	<code>NullPointerException</code> raised when input is nothing and using <code>Holder</code> to return response
CXF-4034	Allow <code>SecurityConstants.SIGNATURE_CRYPTO</code> and <code>ENCRYPT_CRYPTO</code> to be used on processing side
CXF-4036	<code>JAXBContextInitializer</code> ignores some <code>javax.xml.bind</code> Annotations
CXF-4037	Problem creating dynamic client when WSDL is hosted with secured transport (https)
CXF-4042	When generating schema/wsdl, <code>schemaLocations</code> provided via <code>@XmlSchema</code> are dropped
CXF-4043	<code>JSONProvider</code> can not get a custom prefix set for a collection wrapper element
CXF-4044	Ensure <code>publishedEndpointUrl</code> property could be set to endpoint
CXF-4045	<code>BusFactory</code> does not catch <code>NoClassDefFoundError</code>
CXF-4051	Custom OAuth scopes are not supported

Issue	Description
CXF-4052	Crypto cache issues and the <code>PolicyBasedWSS4JInInterceptor</code> used as a singleton
CXF-4054	Unclear error messages given if client policy configuration can't be found
CXF-4055	Parameter Handler not Invoked if Constructor or Static Methods Succeed
CXF-4056	Faults on server are echoing headers back to the client
CXF-4057	Echoed Addressing headers can cause client hangs and timeouts
CXF-4060	Oneway camel scenario is accessing the user principal too late, resulting in <code>IllegalStateException</code>
CXF-4061	Some of the characters in the URI path component are url-encoded
CXF-4066	<code>AbstractTransportFactory</code> registers itself as extension, before being fully initialized
CXF-4067	JAX-RS WebClient proxy sometimes fails to set <code>Content-Type</code> from <code>@Consumes</code>
CXF-4068	<code>wsdlLocation</code> option is not used when set in <code>defaultOptions</code>
CXF-4072	<code>NullPointerException</code> in <code>PhaseInterceptorChain</code>
CXF-4086	<code>Providers.getContextResolvers</code> is only partially implemented
CXF-4088	<code>Class.getGenericSuperclass</code> also needs to be checked by <code>ProviderFactory</code>
CXF-4090	Cannot load cxf and war feature in Karaf 2.2.5
CXF-4094	Refreshing Spring application context leads to <code>NullPointerException</code>
CXF-4095	<code>schemaLocation</code> attribute for <code>swaRef</code> namespace <code>"http://ws-i.org/profiles/basic/1.1/xsd"</code> is wrongly removed

Issue	Description
CXF-4099	SignedParts, EncryptedParts policy assertions are silently ignored on the client side if specified alone
CXF-4103	NullPointerException in org.apache.cxf.frontend.WSDLGetUtils.findSchemaLocation()
CXF-4105	Slf4jLogger doesn't do mapping at the same level as the SLF4JBridgeHandler does
CXF-4106	Attachments get lost when WSDL claims HTTP transport but config uses JMS
CXF-4110	Java first @Policy annotations aren't working
CXF-4113	Header fields duplication in generated wsdl file when using aegis databinding
CXF-4115	The operation property of the MessageContext may return wrong value if erroneous request is sent
CXF-4117	Argument type mismatch when using Implicit Headers and @RequestWrapper with Service from WSDL
CXF-4118	org.apache.cxf.tools.wedlto.java.WSContainerTest.testResourceWithER breaks when run offline
CXF-4121	Default WebApplicationException mapper dramatically increases the response time
CXF-4122	CXFRequestData should get chance to setEnableRevocation from message context When use WS-SecurityPolicy
CXF-4123	Nullpointer exception in Servlet Controller when running in OSGi and changing the http port at runtime
CXF-4124	DynamicClientFactory has issues with schemas embedding in file based WSDL's
CXF-4125	StackOverflowError when requesting WADL
CXF-4127	CXFServlet should be reinitialized on ContextRefreshedEvent
CXF-4128	Code Gen plugin fails silently when generated classes have name collisions
CXF-4129	DynamicClientFactory no longer works with JDK provided JAXB impl

Issue	Description
CXF-4131	org.apache.cxf.transport.http.finalizeConfig() duplicate property listener and possible memory leak
CXF-4133	CachedOutputStream lost charsetName param
CXF-4136	Codegen plugin requires WSDL artifact to be listed in dependency tree
CXF-4140	WS-BrokeredNotification Compliance PublisherReference
CXF-4141	response_code 500 ignored when set in JAXRSOutInterceptor.handleWriteException
CXF-4142	"attachment-directory" property specified on RS endpoint does not change temp directory
CXF-4144	CXF JAXRS Complex response types are not present in the generated wadl when returning list of objects
CXF-4147	Wrong wsdl generated from impl class annotated with @SOAPBinding(parameterStyle = ParameterStyle.BARE)
CXF-4149	org.apache.cxf.endpoint.ClientImpl raises
CXF-4150	Transform feature's OutTransformWriter may not correctly generate namespace declarations
CXF-4153	FIQL Parsers Beanspector, replaces "is", "set" and "get" in method names
CXF-4154	AbstractConduitSelector reused cached conduit even if protocol was changed
CXF-4163	WSDLToJava Error: Thrown by JAXB: 'CodeGroup' is already defined ... OTA_CommonTypes.xsd
CXF-4164	Robust-InOnly processing with WS-RM must must delay updating the sequence until message delivery
CXF-4166	CXF does not always respect SecurityPolicy TokenInclusion for the AsymmetricBinding
CXF-4170	JMX InstrumentationManager's configuration properties may not be set correctly in standalone mode after upgrading to 2.5.2
CXF-4171	Static resource resolution not possible with CXFNonSpringJaxrsServlet
CXF-4172	Default JAX-RS XML, JSON and Form providers are open to the hash collision attacks

Issue	Description
CXF-4177	ClientProxylImpl does not order Path parameter values according to the template order
CXF-4178	ClientProxylImpl does not support Multipart annotations
CXF-4181	CXF error when parsing a SOAP 1.2 fault: Invalid QName in mapping
CXF-4183	SOAP Fault cause NullPointerException
CXF-4185	Unable to access services via browser after installation of war feature in Karaf 2.2.6
CXF-4188	Robust-InOnly processing with WS-RM to perform AtMostOnce delivery assurance check
CXF-4191	RM broken in synchronous Mode
CXF-4192	WSDLValidator doesn't pass the test for WSI-BP-1.0 R2726
CXF-4193	CXF logbrowser sample not working in 2.6.0
CXF-4196	Java First Use Schema Imports does not work
CXF-4200	UriInfoImpl.getPathSegments(decode) does not pass 'decode' flag to getPath()
CXF-4220	After loading XSDs from links in WADL, JAX-RS get all for all resources fail with 400
CXF-4224	Custom HTTP methods (HttpMethod annot) not supported?
CXF-4226	@Description on class level not "inherited"
CXF-4227	AttachmentDeserializerTest contains buggy code for reading an InputStream.
CXF-4231	Incorrect handling of "If-None-Match" and "If-Modified-Since" request header combination
CXF-4238	Spring JAXRSClientFactoryBeanDefinitionParser reports a wrong factory bean class
CXF-4240	CXF WSN cannot run offline in Karaf
CXF-4243	RequestImpl.selectVariant() using wrong headers
CXF-4244	OutTransformWriter's defaultNamespace setting may not replace all default namespace declarations
CXF-4245	JAX-RS databinding support for JiBX

Issue	Description
CXF-4250	WADL To Java Generator fails to process application level method elements
CXF-4258	Disabling WS-Policy feature fails
CXF-4259	JAX-RS Set-Cookie handler needs to ignore Expires property
CXF-4265	Potential NPE when Soap fault has no role
CXF-4267	A NPE in AttachmentDataSource could be guarded.
CXF-4268	WADL 2 Java doesn't respect catalogs
CXF-4269	In some cases, the javascript client will not output the ns declaration for wrapper element of an rpc/lit method
CXF-4271	net.sf.cglib import version range is wrong
CXF-4275	Sample readme file incorrect
CXF-4277	STSCient does not use returned KeyInfo size when creating a secret key
CXF-4278	Karaf features.xml for CXF wants to load EhCache for cxf-sts-ws and cxf-ws-security
CXF-4279	WS-Security ehcache things never shutdown
CXF-4280	case insensitive MetadataMap keyset
CXF-4281	uribuilder from null?
CXF-4283	OAuth 2-leg getAccessToken Error
CXF-4284	Fix JAXB-based providers to report 400 for all read-related exceptions
CXF-4285	WADLGenerator ignores header or query parameters when FormParam parameters are available
CXF-4288	SecureAnnotationsInterceptor maps roles only based on method name
CXF-4292	Incorrect code generated with wadl2java tool when use JAXB binding and XML symple type with restriction.
CXF-4293	Some WS-RM scenarios may not run when there is no internet connection available
CXF-4294	Exception Cache ws-security.timestamp.cache.instance already exists or Cache ws-security.nonce.cache.instance already exists

Issue	Description
CXF-4296	Setting a namespaceMap on JSONProvider does not affect the way JAXB generates prefixes
CXF-4297	WS-RM destination should update ack-ranges in RMStore before sending out acks
CXF-4298	MTOM-streaming regression: Worked 2.3.1, no longer works 2.6.0.
CXF-4300	feature cxf-core does not install on karaf 3 snapshot
CXF-4303	WS-RM fails when the GZIP feature is enabled
CXF-4305	FIQL only gives nullpointerexception. @Context SearchContext does not seem to work.
CXF-4306	Mixing up FormParam and Multipart annotations cause exceptions when some parts contain the binary payload
CXF-4307	The inbound Cookie header should be parsed using a semicolon separator by default
CXF-4309	OAuth2 Access Token Service: returned ClientAccessToken is not JAXB compliant
CXF-4310	WADLGenerator can not create QName when XMLRootElement has no name attribute and correctly manage schemas with empty namespaces
CXF-4312	JAX-WS clients set executor to a "thread per async request" version
CXF-4313	Hourly GC Caused by Framework - Unable to GC tune application if using framework.
CXF-4315	CXF does not read decoupled destination parameters from a config file
CXF-4316	Support EndorsingSupportingToken SignedElements with the Transport binding
CXF-4318	OAuthRequestFilter generates an empty WWW-Authenticate header
CXF-4321	NPE in MEXInInterceptor
CXF-4329	Service using simple frontend with JAXB binding causes a ClassNotFoundException when started in Karaf
CXF-4331	When using SpringBusFactory within OSGi, namespace handlers cannot be found

Issue	Description
CXF-4334	Schema validation does not validate elements in soap header
CXF-4336	org.apache.cxf.bus.blueprint.ConfigurerImpl may get IllegalStateException: Execution container has not been set
CXF-4337	A NullPointerException is thrown during token validation
CXF-4341	AccessTokenService does not identify the authentication scheme
CXF-4342	NullPointerException in CachedOutputStream
CXF-4348	Content-Type is broken in multipart serialization
CXF-4349	JAXRS frontend should report the actual method request and response types to providers
CXF-4352	SAML Web SSO processing error when receiving a signed Assertion
CXF-4353	DigestAuth sends Proxy-Auth headers even when not requested
CXF-4354	RMTxStore should explicitly close ResultSet objects
CXF-4356	Temp file deleted before returning the stream in CachedOutputStream
CXF-4364	Keep TokenStore and ReplayCache instances per-endpoint instead of per-bus
CXF-4365	SAML SSO does not set Destination attribute when creating a signed AuthnRequest
CXF-4366	If not use WS-SecPolicy, ehcache caches not cleaned up
CXF-4371	HTTP OutputStreams block flush()
CXF-4373	JAXB and XSLT providers should not end the documents on writers when used in non JAX-RS contexts
CXF-4374	JSONProvider blocks namespace prefixes set in package-info.java
CXF-4376	STS encryptIssuedToken with the SymmetricKey KeyType does not work
CXF-4379	InjectionUtils failes to convert path-value to class annotated with XmlJavaTypeAdapter

Issue	Description
CXF-4380	JAXBElementProvider is calling wrong method for classes extending JAXBElement
CXF-4382	fault message is not transmitted to decoupled faultTo endpoint if error occurs from a two way operation
CXF-4383	Some temporary files are not deleted after WS-RM scenarios
CXF-4386	Fix the apache-cxf feature issue
CXF-4387	when I run a "webapp" of CXF in weblogic9.2, it has some errors.
CXF-4388	Using wsdl2java maven goal with <wsdl> and <wsdlArtifact> in the same pom fails
CXF-4393	JAXB providers do not recognize custom catalogs when creating Schemas
CXF-4396	UriInfo does not report correct base address for URI with port
CXF-4401	XMLStreamReader does not close the original input stream when it is to be closed
CXF-4402	remove http-whiteboard feature from cxf features.xml
CXF-4403	When using a binding file, location information for errors is lost
CXF-4404	atomicity violation bugs because of misusing concurrent collections
CXF-4405	OneWay faultTo request is not correctly transmitted to the specified address
CXF-4408	NPE in DOMUtils when soap header contains null namespace element
CXF-4409	Proxy-based Client use Multipart getting NullPointerException
CXF-4410	sp:EncryptSignature policy validation should only check to see if the primary signature is encrypted
CXF-4411	Maven plugin fails wsdl2java execution with concurrent modification exception
CXF-4414	SecurityPolicy validation fails when a KeyValue is used as an EndorsingSupportingToken
CXF-4417	Async calls may be silently discarded

Issue	Description
CXF-4426	Unable to Render JSON Content using CXF version 2.6.1 - XML content gets rendered properly
CXF-4427	Error details are discarded and never sent to the client
CXF-4429	Incorrect response check
CXF-4432	[OAuth1.0] oob callback is not supported
CXF-4433	CrossOriginResourceSharingFilter ignores allowCredentials from annotation
CXF-4434	SecurityConstants.TIMESTAMP_TTL property is not parsed
CXF-4435	CounterRepository bean not registering to the bus in blueprint configuration
CXF-4436	EncryptionProperties.keyWrapAlgorithm is not used when issuing a Symmetric HOK SAML Assertion
CXF-4437	Stack Overflow exception in org.apache.cxf.endpoint.ClientImpl when logging set to FINE
CXF-4443	MediaType handler is too strict when processing types without subtypes
CXF-4444	Injecting object with @Resource with no specified name attribute is not working
CXF-4445	CXFNonSpringJaxrsServlet and initialization jaxrs.providers
CXF-4447	javascript client outputting invalid and wrong soapaction
CXF-4448	DocLitBare with @XMLList generating invalid SOAP messages
CXF-4449	XMLBinding generates different messages if code first or wsdl first
CXF-4450	STSCClient doesn't consider the wsam:Action when looking up Operations...
CXF-4452	NullPointerException when trying to customize the package name for a service definition without customizing the class name.
CXF-4454	JSSE KeyManagers and TrustManager XML configurations are ignored if they contain no keystore element.
CXF-4469	2.6.x rt-ws-security bundle is requiring opensaml

Issue	Description
CXF-4470	Unable to configure cxf:bus with Spring 2.5.6-SEC03
CXF-4475	LoggingInterceptor throws when pretty printing MTOM messages
CXF-4476	Content-Disposition header may be incorrectly set in MTOM under windows
CXF-4477	WADL2JAVA generates incorrect primitive parameter type
CXF-4482	AttachmentSerializer puts an extra new line
CXF-4484	Claims to SAML attribute encoding wrong
CXF-4487	cxf-codegen-plugin: Error resolving component warnings for imported types
CXF-4489	cxf-wsn-api bundle can't find org.apache.cxf.jaxws.spi.ProviderImpl in OSGi container
CXF-4493	If javax.jws.Oneway annotation is specified for a SOAP interface method a NPE occurs
CXF-4494	JMSDestination need set binary mode if server send MTOM message back
CXF-4496	find of ResponseExceptionMapper do not handle runtime exceptions
CXF-4499	wrong charset encoding in FormEncodingProvider
CXF-4500	Evaluate jaxrs:schemaLocations after jaxrs:providers
CXF-4503	TransformOutInterceptor may lose namespace declarations in some elements
CXF-4505	Invalid WS-RM messages may not be correctly rejected by WS-RM destination
CXF-4507	bug in SchemaJavascriptBuilder while deserializing an Array
CXF-4508	@Context fails to inject SearchContext into JAX-RS resource bean
CXF-4512	AtomPojoProvider should use MBR Class parameter when checking for custom writers and builders
CXF-4514	JAXRS client ignores enum properties when populating request URI from beans

Issue	Description
CXF-4517	ClassCastException in WS-RM when RMP 200702 assertions are used
CXF-4518	CXF bundle jax-ws-catalog.xml doesn't include mapping of "http://www.w3.org/2006/03/addressing"
CXF-4520	XMLStreamException about namespace has not been bound to a prefix with other stax implementation
CXF-4522	The logicalHandler could not modify the soap:body content if provider uses the SOAPMessage
CXF-4523	Unclosed XMLStreamReader/Writer causes leaking
CXF-4526	PolicyAnnotationListener throws NPE in jar
CXF-4528	WebApplicationExceptionHandlerMapper is too shy
CXF-4533	Encoding error in CachedOutputStream when double-byte char is on 1024 byte boundary
CXF-4534	SortedMap is returned as HashMap
CXF-4535	SOAP fault XML is invalid when a details element exists
CXF-4537	XmlAdapter Not Being Used
CXF-4539	WS-Security inbound performance regression
CXF-4541	idl2wsdl not finding properly scoped structure elements
CXF-4542	@XmlJavaTypeAdapter ignored on exception classes
CXF-4545	ut_sign + sign_enc samples broken in last releases
SF-395	org.apache.cxf.jaxws.checkPublishEndpointPermission does not take affect inside app server (websphere)
SF-403	Server using Provider implementation writes contents of SOAP body in SOAP header
SF-405	http-config conduit doesn't work on the http conduit for WsdIUrl
SF-406	simple schema for blueprint namespace is wrong
SF-407	httpj:engine unable to pick a specific key when a keystore has multiple keys.
SF-408	CXF bundle need to imports the jaas related package
SF-409	The CXF bundle of "net.sf.ehcache" importing should be optional

Issue	Description
SF-421	The CXF server start doesn't work when we use Servlet transport
SF-424	NullPointerException in the TransportBindingHandler
SF-428	Instantiating broker via code using the CXF WSN component bundle
SF-429	CXF WS-RM Sequence Header does not set <code>mustUnderstand = "1"</code>

Container

[Table 5.5 on page 70](#) lists the issues resolved between 7.0.2 and 7.1.

Table 5.5. Container Issues Resolved in 7.1

Issue	Description
ARIES-292	Unable to delete the *.eba file from the samples/blog/blog-assembly/target/load folder while it was running
ARIES-523	Misleading message from <code>PersistenceBundleHelper</code>
ARIES-537	Update ScopeAdmin impl to latest ResolverHook API
ARIES-546	SCM references in parent POM still point to incubator
ARIES-547	Fix up wrong or missing licenses in application module
ARIES-548	Remove references to incubator from code base in trunk and in 0.3-RCx branch
ARIES-550	Fix intermittent application itest failure <code>testDemoAppResolveFail</code>
ARIES-554	Aries JNDI bundle breaks remote JMX clients via RMI
ARIES-556	Aries fails to read <code>persistence.xml</code> files larger than 8192 bytes
ARIES-558	Risk of deadlock in <code>BundleQuiescer.run()</code>
ARIES-559	Isolated framework should work off current bundle list
ARIES-563	The <code>NamespaceHandlerRegistryImpl</code> does not actually reuse parsed schemas
ARIES-564	The <code>cm</code> and <code>ext</code> namespaces should be lazy managers

Issue	Description
ARIES-566	<code>NullPointerException</code> when generating bundle repository for invalid bundle location
ARIES-568	More memory leaks
ARIES-572	<code>NamingException</code> in <code>JMXConnectionFactory.connect()</code> calls with JMX over RMI calls
ARIES-573	Java2 security problem in Aries Managed Persistence contexts
ARIES-576	When the grace period is up the error message reports all services as missing, not the missing ones
ARIES-579	Update the name in the proxy-api and proxy-impl
ARIES-584	Blueprint managed service factory instantiates duplicate service
ARIES-586	Isolation based runtime doesn't work when resolving maven generated blueprint bundles
ARIES-591	Application isolation code doesn't cope properly with a warm start
ARIES-593	<code>ManifestHeaderProcessor</code> can't handle directives with spaces before ":@"
ARIES-599	Consistently use SLF4J Logging
ARIES-602	<code>osgi.console</code> port is not handled well
ARIES-604	<code>ClassCastException</code> in Felix bundle repository when generating repository XML
ARIES-608	<code>DefaultWorker</code> fails if loaded during framework shutdown
ARIES-609	<code>AriesFrameworkUtil</code> uses <code>DefaultWorker</code> on Equinox rather than the Equinox worker
ARIES-612	Cannot access referenced service in destroy-method
ARIES-613	Use <code>error()</code> instead of <code>info()</code> log in <code>BeanRecipe.destroy()</code> on exception
ARIES-622	Close inputstreams in Application utils <code>ManifestProcessor</code>
ARIES-623	Another deadlock in Blueprint service lookup

Issue	Description
ARIES-624	Missing version for asm import in proxy impl
ARIES-626	Aries Blueprint namespace handler schema with includes
ARIES-634	No thread safety in Blueprint Quiesce Participant
ARIES-635	Can't find resource for bundle <code>org.apache.aries.application.management.messages.AppManagementMessages</code>
ARIES-637	Woven Proxy does not cope well with inner classes
ARIES-647	JNDI <code>ObjectFactoryHelper</code> and <code>ContextHelper</code> have wide <code>doPriv</code> blocks
ARIES-654	Blueprint annotation scanning generates duplicate elements when annotated class is in fragment
ARIES-661	Deployment manifest <code>Import-Packages</code> ends up in strange format
ARIES-662	More problems with versioning and the application module
ARIES-665	Proxy weaving code must preserve <code>SerialVersionUID</code>
ARIES-666	Proxy weaving code needs to deal better with missing classes and superclasses in other bundles
ARIES-667	<code>OBRariesResolver</code> can return bundle information for bundles with higher version than expected
ARIES-668	Proxy or weaving code should not mark added synthetic methods final
ARIES-669	Proxy or weaving code should mark all its changes synthetic
ARIES-670	blueprint.api bundle exports <code>org.osgi.service.blueprint</code> package at version 0.0.0
ARIES-673	Proxy code changes handleable <code>NoClassDefFoundError</code> into <code>ClassFormatError</code>
ARIES-674	Do not proxy <code>javax.*</code>
ARIES-677	Service references released before bean destroy methods execute during namespace handler unregister
ARIES-678	Java2 security not working for proxied interface

Issue	Description
ARIES-680	Be more careful to use scope provided external dependencies
ARIES-688	ASM package imports are unversioned in proxy-bundle
ARIES-690	<code>ClassCircularityError</code> caused by proxy weaving
ARIES-693	Interface proxy does not delegate <code>Object</code> methods like <code>equals</code> , <code>hashCode</code> or <code>toString</code>
ARIES-694	Proxy manager can return a stale proxy built against a previous classloader for bundles having undergone refresh
ARIES-696	Blueprint container can appear to loose memory when frequently restarted
ARIES-697	Java 2 security permission failure in JNDI - Util code path
ARIES-698	Missing message resource
ARIES-700	MBean Tracker should listen for all services
ARIES-703	<code>JDKProxyManager</code> cannot proxy blueprint beans
ARIES-704	<code>BundleToClassLoaderAdapter</code> does not implement <code>loadClass(String, boolean)</code>
ARIES-705	Proxy code is weaving JPA metamodel classes and can cause JPA errors
ARIES-709	Well behaved shutdown of the application runtime
ARIES-711	JMX core whiteboard doesn't shutdown well
ARIES-714	<code>SimpleBundleInfo.getExportService()</code> returning wrong value
ARIES-720	Improve waiting for namespace handler message
ARIES-721	<code>NullPointerException</code> in <code>BeanRecipe.getDestroyMethod</code>
ARIES-725	Aries Application modeller does not find and model anonymous inner Blueprint reference or service components
ARIES-726	<code>NullPointerException</code> in <code>CompositeClassLoader</code>

Issue	Description
ARIES-730	Generation of the <code>osgi.identity</code> requirement must support version ranges
ARIES-736	Aries does not take into account the concept of complete/incomplete Persistence Units
ARIES-738	The subsystem resolver hook modifies a collection it's iterating over
ARIES-743	Subclass cannot be created by <code>ProxySubclassGenerator</code> when there is static final method
ARIES-745	Miss parsing default properties defined by new blueprint-ext 1.1.0 schema
ARIES-746	Aries Proxy fails to properly proxy <code>Object</code> methods for interfaces
ARIES-750	Minor memory leak for composite frameworks inside applications
ARIES-762	Bundle framework manager bean should be lazy
ARIES-763	Remove OSGi <code>VersionRange</code> dependency
ARIES-764	JNDI can go into an infinite loop
ARIES-765	Attempting to execute an operation on a closed <code>EntityManagerFactory</code> when the persistence unit is re-deployed
ARIES-767	Service property assigned with a service reference gets a <code>ServiceProxyWrapper</code>
ARIES-768	Application manager can take 5 minutes to shutdown
ARIES-769	<code>ClassCastException</code> during JNDI lookup from WAB inside EBA
ARIES-770	<code>BundleFrameworkConfigurationFactoryImpl</code> breaks LDAP syntax of service Filter
ARIES-771	Blueprint config admin pulls in non-exported blueprint internals
ARIES-774	Problem modelling nested bundles
ARIES-775	<code>ClassCircularityError</code> while weaving a class

Issue	Description
ARIES-776	<code>NullPointerException</code> in <code>AriesFrameworkUtil</code> and <code>DefaultWorker</code> static initializers
ARIES-777	<code>AriesFrameworkUtil FelixWorker</code> doesn't work on r4.3 felixes
ARIES-778	<code>RecursiveBundleTracker</code> doesn't work across isolated Regions
ARIES-782	<code>AbstractCompendiumHandler</code> uses <code>ServiceTracker.getTrackingCount</code> in the wrong way
ARIES-787	Class proxying should not be enabled by default
ARIES-788	Possible <code>NullPointerException</code> when destroying the blueprint container
ARIES-796	<code>PropertyPlaceholder</code> does not really like JPA elements
ARIES-797	Ease blueprint 0.2 to 0.4 compatibility changes
ARIES-799	Aries Repository Generation does not respect blueprint collection semantics
ARIES-800	Closing a recursive bundle tracker opens it
ARIES-801	Aries Proxy cannot proxy abstract classes
ARIES-802	Dependent restart causes <code>ComponentNameAlreadyInUseException</code> : Name 'blueprintContainer' is already in use by a registered component
ARIES-803	Versioning problems in JNDI 0.3.1 release bundles
ARIES-804	Unable to delete EBA file if the value of <code>defaultUseCaches</code> is set to false on <code>JarURLConnection</code> on a separate thread during installation
ARIES-808	Problem with <code>JPAWeavingHook</code> in an environment that uses Composite Bundles
ARIES-809	Not possible to configure transaction timeout
ARIES-819	<code>OsgiFriendlyClassWriter.getCommonSuperClass</code> appears to have some errors

Issue	Description
ARIES-820	New <code>org.apache.aries.util-0.5</code> jar exports <code>org.apache.aries.util</code> package at same version as the v0.4 jar despite new classes existing in package
ARIES-829	<code>ReferenceListRecepie</code> releases using the wrong <code>BundleContext</code>
ARIES-830	Service registration is not removed when an application is uninstalled
ARIES-831	Java 2 security <code>AccessControlException</code> when using JNDI lookup with java2 security enabled
ARIES-832	JPA load-time enhancment fails for a WAB
ARIES-833	Weaving controller switch does not work on IBM JVM v6
ARIES-834	Unable to convert value <code>ListIndexIterable</code> to type <code>java.lang.Iterable<Something></code>
ARIES-838	<code>ClassCircularityError</code> in <code>BlueprintContainerImpl</code> when using a security manager
ARIES-843	Bean can not be created if constructor argument use generics
ARIES-846	The Aries transaction manager does not recover transactions correctly
ARIES-847	<code>NullPointerException</code> in <code>org.apache.aries.blueprint.container.BeanRecipe.destroy</code>
ARIES-848	<code>blueprint-annotation-impl</code> should actually make use of it's properties
ARIES-851	<code>BundleTrackerCustomizer</code> in <code>BundleHookBundleTracker</code> is called multiple times for the same event
ARIES-854	<code>NullPointerException</code> in <code>TransactionManager</code> when <code>Felix configAdmin</code> is used
ARIES-856	Possible deadlock when starting the transaction manager

Issue	Description
ARIES-861	Error on retrieving constructor for proxy of Apache Karaf <code>BlueprintCommand</code> class on jdk 6 update 33
ARIES-863	Blueprint container needs to use bundle's permissions, not its own permissions, for looking up services
ARIES-867	Deadlock if stopping a blueprint bundle while the blueprint container is in the create state
ARIES-872	<code>PersistenceDescriptorParserImpl</code> doesn't accept namespace prefixed tags
ARIES-874	Blueprint should treat "value-type" on a map as a default, not a requirement
ARIES-875	<code>ReferenceRecipe</code> may "unget" a service without ever "getting" it
ARIES-877	The <code>BeanRecipe</code> is missing the factory recipe as a dependency
ARIES-878	Threading issues with <code><cm:managed-properties /></code>
ARIES-880	When recovering transactions, only recover old branches to avoid rollback of in-progress transactions
ARIES-881	The transaction manager is very slow in low concurrency
ARIES-882	A thread is not stopped when the transaction manager is destroyed
ARIES-884	<code>ClassCastException</code> in JMX when installing some bundles
ARIES-885	In container managed mode, a single non thread safe entity manager is used to service all requests when no transaction is active
ARIES-894	Unable to access public methods overridden/implemented in a protected class
ARIES-895	Missing filter directive on <code>Require-Capability</code> does not translate to a filter value of <code><namespace>=*</code>
ARIES-896	Deadlock with blueprint services
ARIES-897	The <code>ReferenceRecipe</code> sometimes unget the tracked service for no reason

Issue	Description
ARIES-898	The blueprint container is not correctly cleaned when a mandatory namespace is unregistered
ARIES-899	Possible concurrent access to the namespace handler registry
ARIES-900	Unresolvable root subsystem should have no effect on the system
ARIES-901	Version attribute not applied to multiple package names separated by semicolons in import package header
ARIES-902	Reference counts not being checked before removing constituent relationships between the "provisioned to" subsystem and bundle resources
ARIES-907	Persisted, unscoped subsystems are not being correctly started on restarts
ARIES-918	Start operations on the root subsystem should not affect its constituent bundles
ARIES-921	java.lang.IllegalStateException: Orphaned bundle revision detected: org.eclipse.osgi_3.8.0.v20120529-1548
ARIES-922	NullPointerException in SubsystemResource.findContent
ARIES-923	A service proxy obtained from a reference list can return a null service, leading to NullPointerException
ARIES-930	The abstract reference recipe may end up tracking the same reference multiple times
ESB-1604	Intermittent exception when starting Apache Karaf - org.apache.aries.jmx - 0.3.0 MBean is already registered
ESB-1607	If debug logging is enabled on a clean install a deadlock occurs
ESB-1670	Karaf JMX Config MBean behaves in unpredictable ways
ESB-1683	Configuration of org.apache.aries.transaction.cfg not honored at runtime when Aries TX Manager is created
ESB-1740	The bundles permissions are bypassed when running code from the console

Issue	Description
ESB-1741	Add the needed stuff to ease running karaf in a secured mode
ESB-1756	When Karaf Master lock is lost it should not try to regain the lock during shutdown
FELIX-3760	Clean webconsole startup and disposal
KARAF-1040	Commands should not catch exceptions but should rethrow them
KARAF-1050	osgi:start xxx doesn't print anything
KARAF-1066	Make features XML parser more forgiving
KARAF-1101	Completion does not work when quiesce manager is deployed
KARAF-1117	Log messages appear on stdout when the feature http is installed
KARAF-1122	Feature <configfile/> creates an empty file if the file URL is not resolved
KARAF-1124	Apache Karaf does not work properly with closing brace in the working directory path
KARAF-1133	Error executing command 'start' when starting a child instance
KARAF-1139	Redeploy kar causes the installation of old feature
KARAF-1143	Karaf (Config Mbean) can not recognize the features when installation path contains blank space
KARAF-1144	When running a single remote command through SSH, the SCOPE variable isn't set
KARAF-1161	shell:new does not support the creation of arrays
KARAF-1162	A command that can not be loaded breaks the whole completion
KARAF-1164	Archetypes are not valid
KARAF-1174	The war feature cannot be installed after the cxf feature
KARAF-1175	Duplicate key exception should be handle locally to avoid to affect the whole MBean
KARAF-1179	dev:watch * doesn't notice new bundles added to the container

Issue	Description
KARAF-1182	Apache Karaf features-maven-plugin always selects lowest version in range
KARAF-1199	dev:watch issues "[WATCH]" announcements only to the issuing shell
KARAF-1202	log:tail spins with debug on
KARAF-1212	<code>NullPointerException</code> during update of the <code>FeatureFinder</code>
KARAF-1215	Shell scripts are incompatible with <code>/bin/sh</code> on Solaris
KARAF-1216	<code>add-features-to-repo</code> goal does not reclaim file handles fast enough
KARAF-1220	<code>o.p.karaf.management</code> bundles must stop when its configured keystore is not available
KARAF-1226	Karaf Client cannot run a script
KARAF-1252	Features core bundle should not depend to shell and management bundles
KARAF-1256	Archetypes should use dynamic variables
KARAF-1257	Configuration completers should avoid using <code>getConfiguration</code> method of config admin
KARAF-1260	Console doesn't like it when the console window is too small - no line wrapping for commands
KARAF-1265	Add AIX, HP-UX, Solaris, and "custom" support in the service wrapper
KARAF-1268	Allow multiple commands in karaf script
KARAF-1279	<code>IOExceptions</code> used in an incompatible way with Java 5
KARAF-1284	Karaf bundle archetype maven bundle plugin configuration is missing "instructions" tags
KARAF-1298	dev:watch does not work in some cases
KARAF-1304	Quick help text for features:info is erroneous
KARAF-1305	Error with Basic HTTP Authentication when using karaf realm
KARAF-1318	User bundles are treated as system bundles

Issue	Description
KARAF-1343	Features repo points to the old pax-wicket app
KARAF-1354	SSH Log-In failes with "Authentication failed" with valid credentials
KARAF-1360	Configuration update doesn't work
KARAF-1373	features-maven-plugin, unexpected text in stderr
KARAF-1374	Fileinstaller logging is not enabled by default
KARAF-1387	Warning to missing a feature repository name even when the name is defined
KARAF-1388	SSHD authorized key provider should log in DEBUG
KARAF-1389	SSH doesn't correctly use the karaf.base variable
KARAF-1392	Removing a KAR should uninstall the shipped features
KARAF-1394	Custom login modules not seen with Equinox
KARAF-1416	Blueprint archetype instructions is missing
KARAF-1430	Default child instance config is not the same as the root instance
KARAF-1491	Admin service not able to start child instances when the JDK path contains a space on OS X
KARAF-1496	Bad login when using sufficient modules but when the first fail
KARAF-1529	command-watch messes the output when used with commands that take longer than the interval
KARAF-1538	Exceptions when unregistering MBeans during a restart
KARAF-1541	jaas:realm-manage raises a <code>NullPointerException</code>
KARAF-1564	karaf feature validate plugin should support to load the exports packages from dependency features
KARAF-1566	instance:clone set the source instance in error
KARAF-1573	Potential ZipFile leak at <code>KarArtifactInstaller.install()</code>
KARAF-1585	Installing using wrap protocol fails when specifying bundle version
KARAF-1587	When executing a command through the client, no error is printed in the console in case of errors

Issue	Description
KARAF-1609	command-watch info does not work
KARAF-1617	Blueprint deployer in combination with maven URL deployer creates wrong OSGi/blueprint/ file
KARAF-1666	Default configuration for <code>jetty.xml</code> could create problems
KARAF-1675	Wrapper service requires a shell
KARAF-1683	"no matching cipher found" error connecting via SSH to wrapper Karaf service - on Ubuntu
KARAF-1695	Startup fails on Windows with only JRE installed
KARAF-1699	MBeans should support the same flags as the commands
KARAF-1702	Stopping the console bundle should not shutdown the OSGi framework
KARAF-1706	Features bundle versions are not consistent
KARAF-1715	Occasional freeze on <code>feature:install webconsole</code>
KARAF-1736	Feature spring-struts can't be installed
KARAF-1754	Updating <code>features.xml</code> in auto deploy folder results in duplication
KARAF-1756	No SSH connection possible on Debian 6.0.5
KARAF-1759	No way to start obr dependencies by default
KARAF-1765	The obr shell deploy and start commands always deploy optional dependencies
KARAF-1796	Feature install sequence should be install/install/install...start/start/start
KARAF-1797	<code>NullPointerException</code> thrown from <code>OsgiConfiguration.unregister</code>
KARAF-1809	Feature spring-web-portlet can't be installed
KARAF-1814	Cursor keys do not work when using bin/client on windows
KARAF-1815	When ssh'ing from a Windows box into a Unix box, arrow keys are not correctly interpreted
KARAF-1821	Some etc files are executable whereas it should not be

Issue	Description
KARAF-1822	<code>BundlesMBean</code> should use <code>bundles</code> attribute instead of <code>list()</code> operation
KARAF-1824	<code>tooling-exam</code> contains reference to wrong <code>commons-io</code> artifact
KARAF-1825	<code>SystemMBean</code> should provide <code>startLevel</code> attribute
KARAF-1826	<code>ConfigMBean</code> should use <code>configs</code> attribute instead of <code>list()</code> operation
KARAF-1830	<code>ObrMBean</code> should use attribute for bundles and URLs instead of list operations
KARAF-1831	<code>PackagesMBean</code> should use attributes for imported/exported packages instead of operations
KARAF-1832	<code>ServicesMBean</code> should use attribute instead of <code>list()</code> operation
KARAF-1839	System bundle also should export <code>javax.xml.ws.spi.http</code> package
KARAF-1840	Should also endorse <code>saaj-api</code>
KARAF-1845	Minimal distribution doesn't start
KARAF-1852	OSGi packages are exported with wrong versions
KARAF-1853	Attached kar deploys to a different snapshot build number than the main artifact
KARAF-1879	admin management bundle has unnecessary imports
KARAF-1882	Provide level attribute in the <code>LogMBean</code>
KARAF-1888	Remove aliases by default
KARAF-1905	ASM4 causes the Proxy/Weaving of Xerces, but that then causes validation factories to fail
KARAF-1949	console shutdown -f hang
KARAF-1978	If use script to start a child instance then using <code>karaf console admin:list</code> can't get the instance correct status
KARAF-1986	<code>instance.properties</code> file doesn't get updated if <code>karaf.name</code> is changed

Issue	Description
KARAF-1992	PropertiesLoginModule handles usernames with backslash not correct
KARAF-2051	Duplicate definition of <code>org.ops4j.pax.url.mvn.localRepository</code> in <code>org.ops4j.pax.url.mvn.cfg</code>
KARAF-2052	Progress bar doesn't display properly on 80 char consoles
KARAF-536	Backspace no longer works in Putty after using 'connect' command to connect to other instance, and commands are printed in only 2 columns
KARAF-913	Omitted <code>@Command</code> on Gogo plugin is hard to debug because of <code>NullPointerException</code>
ENTESB-286	admin:list always throws <code>java.io.IOException</code> even if the command is successful
ENTESB-287	Child containers command line gets truncated around at approx 55chars
ENTESB-291	Please make make <code>rmiRegistryHost</code> configurable
ENTESB-292	<code>IllegalStateException</code> when the persistence bundle gets resolved
ENTESB-306	pax web still using uninstalled bundle
ENTESB-307	After starting child container with admin start child , karaf admin:list still shows state stopped, not showing started
ENTESB-419	Cannot install patches as shell script
ENTESB-420	Cannot uninstall patch
ENTESB-450	jaas:manage cannot attach to <code>ZookeeperLoginModule</code>

Fuse Fabric

[Table 5.6 on page 85](#) lists the issues resolved between 7.0.2 and 7.1.

Table 5.6. Fuse Fabric Issues Resolved in 7.1

Issue	Description
FABRIC-226	aws-ec2 cloud provider attempts to connect before it is configured
FABRIC-245	setting resolver to a value other than localhostname doesn't appear to take effect for cloud containers
FABRIC-248	Asynchronous registration of a cloud provider to zookeeper is broken
FABRIC-254	Can't use profile-edit to set a property than contains equal signs
FABRIC-270	Race condition when creating remote ensemble servers
FABRIC-277	There are cases were the fabric agent falls inside an infinite loop updating itself
FABRIC-279	ClassNotFoundException: org.apache.felix.service.command.Function
FABRIC-282	The fabric-camel component is not accepting options in the URI
FABRIC-286	fabric:container-create-ssh will create the specified number of remote root containers, but only 1 is accessible
FABRIC-290	fabric-ensemble-create has the wrong completer for commands
FABRIC-291	Falling back to the default profile doesn't always work
FABRIC-293	fabric-jclouds restarts the shell
FABRIC-294	NullPointerException in cloud-provider-remove
FABRIC-295	Child containers should reuse their parents resolver and addresses
FABRIC-297	Artifacts stored in the root container's system repo directory do not get updated
FABRIC-300	The patching service should properly handle options on symbolic names
FABRIC-301	Fabric zookeeper digest uses platform dependent <code>String.getBytes()</code>
FABRIC-302	When creating Fuse Management Console, a bunch of jclouds related exceptions appear in the log

Issue	Description
FABRIC-303	The upgrade to karaf-jclouds 1.5.3 causes Fuse Management Console to fail provisioning
FABRIC-307	fabric:create always ask for a login/password
FABRIC-308	The agent downloads jars that are already present in the system folder
FABRIC-309	The <code>mq</code> profile doesn't deploy a broker
FABRIC-310	Installing the zookeeper commands fails
FABRIC-312	<code>IOException</code> when trying to create containers based on <code>example-mq</code> or <code>example-camel</code> profiles
FABRIC-313	When creating a fabric using Fuse Management Console, a lot of jersey related <code>NullPointerException</code> are logged
FABRIC-315	The demo package has changed
FABRIC-318	The fabric features service does handle recreating the ensemble gracefully
FABRIC-323	<code>IllegalStateException</code> : No ssh agent found trying to connect to a child container
FABRIC-324	The response to fabric:create without password options is confusing
FABRIC-325	The <code>--resolver</code> option in fabric:join has incorrect online help
FABRIC-328	Child container with just the <code>default</code> profile fails to provision successfully
FABRIC-330	fabric:join fails with an authentication error
FABRIC-331	fabric:container-create-cloud new-user options are not working
FABRIC-332	fabric:create username/password prompt - Weird Unicode symbols when backspace pressed
FABRIC-333	Typo in error message when installing features on a managed container
FABRIC-334	WARN: listeners are taking too long to process the events
FABRIC-336	<code>fabric-jolokia</code> doesn't compile when using Java 7

Issue	Description
FABRIC-337	Connecting to a container without specifying the --username option causes a <code>NullPointerException</code>
FABRIC-339	Typo in fabric error message
FABRIC-340	fabric:container-create-child can throw a <code>NullPointerException</code>

Chapter 6. Enhancements

ESB

[Table 6.1 on page 89](#) lists the enhancements between 7.0.2 and 7.1.

Table 6.1. ESB Enhancements in 7.1

Enhancement	Description
ENTESB-81	Should karaf.name maybe be "FuseESB" instead of "root" in etc/system.properties
ENTESB-181	Align username and password
ENTESB-186	Apache CXF 2.6.x is needed to fully support SAML with JAX-RS
ENTESB-220	cxf:list-endpoints - Add option to list the full url of the service
ENTESB-264	Upgrade to include Blueprint 1.0
ENTESB-271	NormalizedMessageImpl constructor creates a new SourceTransformer each time
ENTESB-279	AsyncBaseLifeCycle.pollDeliveryChannel() invokes processExchangeInTx when exchange is not in transaction
ENTESB-290	Add support for plugging in 3rd party AbstractMessageListenerContainer to be used by camel-jms
ENTESB-300	Ship standalone releases in extras
ENTESB-304	Add JMS example to demos
ENTESB-369	The assembly should reuse the system.properties of the fabric distribution
ENTESB-386	Avoid duplicate feature and bundle resolution when installing cascading features in Karaf
ENTESB-407	Request to deploy bundle org.apache.geronimo.specs/geronimo-j2ee-connector_1.5_spec/2.0.0 out of the box in 7.0.2
ENTESB-411	Add info about adding initial user account to readme

Enhancement	Description
ENTESB-416	Fix warn log from MavenRepositoryURL like "This is deprecated & discouraged & just evil."
ENTESB-425	Ensure fab MavenResolverImpl can honor new @id postfix
ENTESB-437	readme.txt file has vague information about what needs to be done before you can use the product
ENTESB-445	Consider remove client.html files from soap soap-secure examples as modern browser don't allow using them anymore
ENTESB-446	soap secure example - Should probably say "Hello World" or something as response instead of ffang
ENTESB-481	servicemix-wsn2005 should be able to configure username/password when connect to a secure jms broker
ENTESB-173	Please create a demo showing how to set up transactions in an OSGi environment
ENTESB-127	Add info to readme on how to start Fuse ESB Enterprise in the background
ENTESB-428	examples/README.txt - Should contain information about the new JMS example
ENTESB-444	Default ESB user should be same as fabric
FAB-40	Automatically add required imports for using Spring and CXF together
FAB-41	Standard Maven dependencies should default to provided scope
FAB-49	Add a fab:info command to describe the FAB in human-readable format

Messaging

Table 6.2 on page 90 lists the enhancements between 7.0.2 and 7.1.

Table 6.2. Messaging Enhancements in 7.1

Enhancement	Description
MB-1024	Revert the Oracle jdbc adapter to a variant of the default jdbc adapter in place of the one supporting blobs

Enhancement	Description
AMQ-1191	JDBC based Master/Slave not supported for TransactSQL based databases (SQL Server and Sybase)
AMQ-1492	SET AUTOCOMMIT TO OFF is no longer supported Postgre8.1 Error
AMQ-1514	Patch HTTP connector to support proxy authentication if proxyUsername and proxyPassword provided
AMQ-1540	Patch to trim spaces from entry fields in web console app
AMQ-1905	Method required: ObjectName[] ConnectionViewMBean.getConsumers()
AMQ-1907	Method required: ObjectName SubscriptionViewMBean.getConnection()
AMQ-2229	Remove warnings from CSS file
AMQ-2535	Jetty SSL configuration
AMQ-2741	Provide visibility onto destination SlowConsumerStrategy via JMX
AMQ-2845	log4j conf reload via JMX ignores log4j.configuration setting
AMQ-2911	Option to make all consumers retroactive
AMQ-2961	Audit, test and update libraries in latest Apache ActiveMQ distribution
AMQ-3074	Expose TransportConnection.stopping
AMQ-3116	Unicode characters are not shown correctly in message body
AMQ-3135	ActiveMQ.Advisory.Connection messages should contain client ip/host
AMQ-3137	Outbound bridges should handle remote connectivity problems at startup
AMQ-3173	Better representation of ActiveMQMessage messages on server page message.jsp
AMQ-3224	Redelivery per destination
AMQ-3227	Support synchronous sending in ActiveMQ streams
AMQ-3322	Minor code improvements in security module

Enhancement	Description
AMQ-3326	Synchronization point in RegionBroker adding and removing producers and consumers
AMQ-3339	Allow for an option to bound the number of GC'd Destinations when using <code>gcInactiveDestinations=true</code>
AMQ-3383	Add a string property (token) to <code>ConnectionControl</code> so the broker could potentially communicate a security token to a client after it authenticates
AMQ-3406	Enable <code>BrokerServiceAware</code> support for <code>DiscoveryAgent</code>
AMQ-3410	<code>AbstractAmqCommand</code> should allow the connection factory to be changed
AMQ-3412	<code>activemq-camel</code> bundle doesn't need to export the package of <code>META-INF/services/org.apache.camel</code>
AMQ-3415	Show message timestamp in the RSS <code>pubDate</code> field in Web console
AMQ-3436	Support prioritization of messages pending dispatch
AMQ-3439	<code>NetworkConnectorViewMBean</code> doesn't expose <code>suppressDuplicateQueueSubscriptions</code> and <code>suppressDuplicateTopicSubscriptions</code>
AMQ-3449	Add Stomp v1.1 support
AMQ-3464	XML view for subscribers in admin console
AMQ-3474	Investigate further <code>onUsageChange</code> flushing for <code>FilePendingMessageCursor</code>
AMQ-3482	Make <code>PooledConnectionFactory</code> 's <code>sessionPool</code> non-blocking in case its full
AMQ-3483	Cleanup TODOs "Auto-generated catch block" to improve the quality of Tag List Report
AMQ-3486	Add check to prevent Durable Subscriptions on Session that are in Individual Ack mode
AMQ-3500	Setting destination options should validate against typos

Enhancement	Description
AMQ-3508	SSL and TLS - Support list of included and excluded protocols
AMQ-3512	Using browse command fails when a message with an array of bytes is encountered
AMQ-3533	mKahaDB, allow the directory of a filtered destination to be specified, such that destination journals can be split across disks
AMQ-3554	activemq:create should use name as argument in place of option
AMQ-3558	Allow the base network consumer priority to be configured on a <code>networkConnector</code>
AMQ-3573	Hardcoded defaults for <code>systemUsage</code> not suitable for out of the box
AMQ-3574	Enable <code>systemUsage</code> configuration in <code>activemq.xml</code> out of the box
AMQ-3609	Turn inactivity monitor thread off by default
AMQ-3615	Advisory broker replay of destination advisories needs to distinguish temp destination from regular destination
AMQ-3638	Add LFU page cache as an option for kahaDB
AMQ-3639	Modify MKahaDB To support using one adapter per destination without explicitly listing every destination in the configuration
AMQ-3646	Allow KahaDB to run without disk syncs, higher throughput without the JMS persistence guarantee
AMQ-3667	Use 1G heap by default and <code>UseDedicatedTaskRunner=false</code>
AMQ-3682	Karaf commands should try using --jmxlocal by default
AMQ-3683	Enhance the <code>InactivityMonitor</code> shutdown logic
AMQ-3696	Slave broker cannot be stopped in a JDBC Master/Slave configuration within OSGi
AMQ-3703	Replace use of class <code>Valve</code> with standard JDK <code>ReentrantReadWriteLock</code> in class <code>Topic</code>

Enhancement	Description
AMQ-3705	When a destination is removed all the advisory topics for that destination should also be removed
AMQ-3714	<code>getScheduler():Scheduler</code> of class <code>org.apache.activemq.ActiveMQConnection</code> should use lazy initialisation
AMQ-3718	Thread pool turnover is too heavy due to <code>Executor</code> configuration
AMQ-3750	Add a hint when storing a message so a message store can optimise message storage if the message is likely to be consumed quickly
AMQ-3770	Generalize LDAP group processing / LDAP group expansion
AMQ-3772	Add levelDB store support to Fuse MQ Enterprise
AMQ-3786	Add support for MQTT
AMQ-3788	<code>getStatus</code> on <code>ActiveMQConnectionFactory</code> is not implemented
AMQ-3813	Limit the number of producers and consumers created by a <code>Connection</code>
AMQ-3847	Optional import for <code>org.apache.activemq.pool</code> in <code>activemq-camel</code> should be required
AMQ-3859	Too tight version range in <code>activemq</code> features file
AMQ-3861	Offer a way to not set a transaction manager in <code>activemq-camel</code>
AMQ-3878	Reset stats automatically without dependency on JMX / Java APIs
AMQ-3893	Adjust topic policy entry in default configuration
AMQ-3913	Stomp Spec allows for stomp headers to have spaces in key or value we currently trim
AMQ-3914	Add support for MS SQL JDBC driver 4.0
AMQ-3971	Remove <code>System.out.println</code> from <code>ActiveMQConnection</code>

Enhancement	Description
AMQ-3972	Add an <code>isDisposed</code> check before calling <code>propagateFailureToExceptionListener</code> in <code>FailoverTransport</code>
AMQ-3983	Fix OSGi dependency
AMQ-3986	Allow <code>optimizeDurableTopicPrefetch</code> to be set using resource adapter properties
AMQ-3991	Output version number in started log line to be consistent
AMQ-4003	Add option to <code>PooledConnectionFactory</code> to control if connection should be created on start-up or not
AMQ-4004	activemq-pool - Rename <code>maximumActive</code> option <code>maximumActiveSessionPerConnection</code>
AMQ-4008	Tomcat WARN on shutdown about <code>ThreadLocal</code> not cleared from <code>log4j</code>
AMQ-4011	Refactor <code>IntrospectionSupport</code> to avoid using Java bean property editors
AMQ-4012	Use english locale for introspection support when discovering setter/getter method names
AMQ-4015	Add uptime to broker mbean and when stopping broker to report its uptime
AMQ-4016	Seems like static thread pool is not used in <code>org.apache.activemq.ActiveMQConnectionFactory</code>
AMQ-4019	Make better use of commons-pool in activemq-pool
AMQ-4026	Refactor logic to shutdown thread pools using a single API to ensure better shutdown and offer logging et all
AMQ-4027	Add support for Java 7 in <code>AbstractJmxCommand</code>
AMQ-4029	Unregistering mbean should handle null mbean names
AMQ-4049	Polish the start stop logging
AMQ-4063	Trim RAR to not included Derby JAR
AMQ-4067	Prefix Thread names with ActiveMQ
AMQ-4177	<code>browseMessages()</code> fails when using Jolokia to browse JMX

Enhancement	Description
AMQ-1928	Limit the maximum number of connections to a broker
AMQ-2455	Need a facility to retry JMS connections to a foreign provider by the ActiveMQ JMS bridge
AMQ-2570	Apache Karaf support
AMQ-3236	In the case of DLQ processing due to an exception from <code>onMessage</code> , provide the exception string as a message property
AMQ-3298	Cannot create bridge to WebSphere queue using default messaging provider
AMQ-3623	Add <code>DefaultTestAppender</code> utility abstract class
AMQ-3632	Allow easy creation of purely static bridges
AMQ-3769	Support doing non-blocking sends that uses an async callback that gets notified when the send has been received by the broker
AMQ-3917	Apache ActiveMQ should support multiple durable subscriptions per Stomp client
AMQ-4005	Implement pluggable broker lockers
AMQ-4162	Provide JMX visibility into options applied via destination name query parameters
MB-1031	Contention on a mutex during a stress when using <code>SimpleAuthenticationPlugin</code>
MB-1077	Improve failover clustering so we can better support active-active setups
MB-1092	Add troubleshooting, diagnostic script to capture commonly needed broker runtime environment data
MB-1094	Add authenticated username info in <code>ConnectionViewMBean</code> and <code>SubscriptionViewMBean</code>
MB-1103	<code>activemq feature.xml</code> use old <code>org.apache.aries.transaction.manager</code> bundle cause intermittent hang on some platform
MB-1128	ActiveMQ dynamic failover randomizes client connect string causing imbalance
MB-1145	Incorrect paths used in <code>wrapper.conf</code>

Enhancement	Description
MB-1150	Create a wrapper for use in a 64bit environment
MB-1155	The broker's message group feature should rebalance the message distribution when new consumers added
MB-1156	Add support for lease based lock to jdbc persistent adapter
MB-1157	Support for more sophisticated redelivery semantics
MB-1158	Support for secure websockets transport connector
MB-1187	Allow REST API to connect to the secured broker
MB-1188	REST API support for application/json as content type
MB-1193	Allow compression of messages across network of brokers
MB-1195	Reduce <code>maxRows</code> default value from 10,000 to a lower value like 200 in JDBC persistence adapter
MB-1210	Websocket transport: support increasing the max size of websocket messages
MB-1219	Enable <code>IndividualDeadLetterStrategy</code> to be able to use a suffix option
MB-707	Distribute a 64-bit version of Java Service Wrapper
MB-844	Please add the user name in the "User name or password is invalid" error line
MB-848	Please enhance STOMP message logging so that only STOMP Frames may be redirected to another file
MB-887	Implement nio+ssl transport
MB-896	Pooled connections causes Temporary Destination leaks since connections don't get closed
MB-902	Broker does not check for expired persistent topic messages
MB-911	Exposing subscription statistics through Statistics plug-in
MB-930	Guard debug logging in message expiry task in AcitveMQ to avoid unnecessary loading the messages into memory
MB-942	Update activemq-admin usage to include info on how to change JMX access
MB-943	Confusion around discoveryAgent - Rendez-Vous

Enhancement	Description
MB-952	Fuse MQ Enterprise cannot determine between Queue and Topic for Weblogic destination
MB-969	Change prefetch size limit for topics from 32766 to 32767
MB-973	The rar distribution is missing the slf4j-log4j jar file
MB-975	Upgrade our http transport implementation from using HttpCommon v3.1 to HttpCore/HttpClient v4.x
MB-984	Improve ActiveMQ's XSD to allow elements to appear in any order
MB-986	Add IP address of clients to ERROR messages created within transport layer
MB-988	Enhance HTTP transport connector to support message compression
MB-994	Exclude network connectors from <code>sendFailIfNoSpace</code> on producer flow control
MB-995	Added <code>masterslave</code> configuration for <code>networkConnectors</code> to simplify master/slave pair configuration
MB-1022	Please create an inactivity monitor on STOMP 1.0
MB-1076	Add ability to do priority failover and fallback, using the backup facility in the Failover transport
MB-859	Add support for wildcards for LDAP authorization map
MB-905	Durable subscribers that are disconnected and haven't tried connecting for some time could get unsubscribed automatically
MB-920	Add ability for KahaDB log files to be created on a per-destination basis
MB-962	Please add support for JMS option <code>consumer.exclusive</code>
MB-967	Broker to persist <code>JMSRedelivered</code> flag

Enhancement	Description
MB-990	Allow virtual topic interceptor to ignore messages that are received over network connector

Routing

[Table 6.3 on page 99](#) lists the enhancements between 7.0.2 and 7.1.

Table 6.3. Routing Enhancements in 7.1

Enhancement	Description
CAMEL-1260	should we use endpoints for errors thrown by things like ScheduledPollConsumer - so folks can choose to log them, route them, or just ignore them
CAMEL-3211	Enrich and PollEnrich - Option to let it poll multiple messages
CAMEL-3496	camel-bindy - Make it easier to use by getting rid of List<Map> structure and other improvements
CAMEL-4014	cxfrsServer requires class instead of interface in the serviceClass attribute
CAMEL-4152	jdbc idempotent repository - table creation
CAMEL-4230	BeanProcessor - Improved exception message if failed to invoke method
CAMEL-4279	Add support for the new TLS for spring-ws if possible
CAMEL-4297	Add errorHandler option for DMLC to camel-jms
CAMEL-4300	camel-cache - Make it possible to specify cache operation / key in endpoint uri
CAMEL-4303	Add camel-netty option to configure whether the server needs client auth when using SSL
CAMEL-4577	Create a scheduled batch polling consumer
CAMEL-4602	file/ftp consumer - The filter option should be able to work on directories as well
CAMEL-4603	Messages after a split() should not keep attachments
CAMEL-4641	CxfEndpoint didn't support some kind of feature when dataFormat=MESSAGE

Enhancement	Description
CAMEL-4665	Add support for Camel JSSE Configuration Util to Mail component
CAMEL-4680	Check for clash with multiple consumers when starting a new route manually using startRoute
CAMEL-4693	http4 Component not exposing HttpContext
CAMEL-4770	Add startAsync option to JMS consumer endpoint to allow route to be started, but the connection to the remote broker occurs async
CAMEL-4779	Make Ant path matching in file / FTP component easier to use
CAMEL-4782	Add <code>ManagedIdempotentConsumerBean</code> with additional details such as duplicate detected
CAMEL-4799	Umbrella ticket for XPath improvements
CAMEL-4804	Add replyTo option to camel mail component
CAMEL-4809	<code>interceptSendToEndpoint</code> with predicate and skip
CAMEL-4849	Properties component - Add option to ignore non existing resources
CAMEL-4853	camel-mina - Make it easier to use a custom thread pool for the consumer
CAMEL-4865	Camel archetypes - Add camel-test at test scope in generated pom.xml
CAMEL-4868	Add feature for camel-context component
CAMEL-4873	camel-twitter: Twitter4J response objects as Exchange body
CAMEL-4874	camel archetypes - The Java and Scala archetypes should not have Spring included
CAMEL-4875	The package scan for RouteBuilder classes should not include anonymous inner classes
CAMEL-4880	Add streaming update support to Camel-Solr
CAMEL-4881	Add support to camel-solr for <code>SolrInputDocument</code> objects in the message body
CAMEL-4884	Make velocity logging configurable
CAMEL-4889	KratiProducer should not assume key to be of String type

Enhancement	Description
CAMEL-4890	camel-solr - Should use dynamic assigned port numbers for testing
CAMEL-4914	camel-test-blueprint - Make it possible for end users to easier specify the blueprint XML file to use for testing
CAMEL-4919	Testing headers in multiple messages
CAMEL-4931	Improve column display in <code>camel:route-list</code> and similar Karaf commands
CAMEL-4932	Twitter component improvements
CAMEL-4933	camel-test - CamelTestSupport should not have any Spring dependency
CAMEL-4934	CamelBeanPostProcessor - Move from camel-spring to camel-core to make it reuseable by others such as camel-blueprint and camel-test
CAMEL-4936	camel-test-blueprint - Add support for using <code>@EndpointInject</code> et all in the unit test class
CAMEL-4937	camel-maven-archetypes - The maven archetypes should not WARN about platform depend encoding
CAMEL-4939	camel-test - Move CamelSpringTestSupport to a new camel-test-spring component
CAMEL-4940	camel archetypes - Add camel-test, camel-test-spring, camel-test-blueprint as test scoped to the generated pom.xml
CAMEL-4944	Add support of marshal/unmarshal JSON with Google Gson library
CAMEL-4946	Management - Get performance statistics as XML per CamelContext or per Route
CAMEL-4952	Main class in camel-core, should be easier to configure a custom Registry, or add beans to the registry
CAMEL-4953	Add interface to allow processors in routes to be notified that a shutdown is in progress
CAMEL-4955	Camel should run in a Java 7 environment
CAMEL-4957	camel-archetype-java - Should setup a pure Java based project
CAMEL-4962	Add <code>messageld</code> as key for MDC logging

Enhancement	Description
CAMEL-4965	Allow to configure rollback logging level on TX error handler
CAMEL-4968	Expose Transacted Redeliveries statistic in JMX
CAMEL-4971	Add camelId as function to simple language
CAMEL-4990	<code>SimpleExpression</code> should trim the string before parsing
CAMEL-4993	Add session information from cometsd to camel message headers
CAMEL-4994	<code>UnsupportedOperationException</code> thrown if <code>@Consume</code> method is not public
CAMEL-4997	Method call expression with bean type uses the <code>toString</code> to lookup a bean instead
CAMEL-5001	Remove <code>shareUnitOfWork</code> from recipient list EIP
CAMEL-5002	<code>BaseTypeConverter</code> blocks when getting type converter
CAMEL-5003	Add support of generated keys retrieval in JDBC component
CAMEL-5007	<code>PropertiesComponent</code> on <code>errorHandler</code> properties
CAMEL-5010	Remove OSGi environment detection logging from camel-spring
CAMEL-5011	Deprecate the <code>lazyLoadingTypeConverter</code> option as loading TC is now fast
CAMEL-5012	Starting and stopping Camel should be less verbose
CAMEL-5016	Support the Jetty8 API of <code>ServletContextHandler.addFilter</code>
CAMEL-5017	Let user choice how to group the lines in the <code>StreamConsumer</code>
CAMEL-5018	Support unmarshall of CSV files that does not contain all fields described in the annotated POJO
CAMEL-5019	Create a camel-mongodb Karaf feature
CAMEL-5028	Using <code>adviceWith</code> in <code>CamelSpringTestSupport</code>
CAMEL-5029	Allow customizing list of bundles for camel-test-blueprint

Enhancement	Description
CAMEL-5030	Allow smpp connection to be tunnelled through HTTP proxy
CAMEL-5032	Java RouteBuilder configuring context scoped error handler should not be a fluent builder
CAMEL-5037	Add support for the JSSE Configuration Utility to the Mina 2 component
CAMEL-5039	Make <code>WeightedRandomLoadBalancer</code> really random
CAMEL-5042	Shutting down a thread pool should remove the thread pool from JMX if it was enlisted
CAMEL-5044	Use the openjpa-maven-plugin instead of maven-antrun-plugin to enhance the JPA entities for OpenJPA
CAMEL-5047	Clean up MDC property names
CAMEL-5050	Create LevelDB Aggregator Component
CAMEL-5052	<code>DefaultUnitOfWork</code> should copy headers from the original message if it's a <code>JmsMessage</code>
CAMEL-5055	Offer a way to not set a transaction manager in camel-jms
CAMEL-5056	Remove fluent builders on <code>BeanDefinition</code> as they are not used
CAMEL-5059	Advice with - mock endpoints - should allow to skip send to original endpoint
CAMEL-5068	Allow to configure cache option on <code>propertiesPlaceholder</code> in XML DSL
CAMEL-5072	Shutting down scheduled poll consumer should shutdown self managed thread pool, as its no longer needed
CAMEL-5073	Add camel-jt400 to features
CAMEL-5074	Add option to <code>newSingleThreadExecutor</code> to allow thread pool to shrink to 0 in case task is not needed to run all the time
CAMEL-5079	Thread pools configured on EIPs should be shutdown and removed if possible when the route is removed
CAMEL-5081	<code>org.apache.camel.component.mqtt.MqttBatchConsumerTest.testBatchConsumer()</code> fails unpredictable

Enhancement	Description
CAMEL-5082	camel-printer: more than one lpr + JobName + mockito
CAMEL-5090	WireTap EIP - Sending to destination should support error handler
CAMEL-5091	Do not register <code>ProducerCache</code> in JMX as they don't bring much value
CAMEL-5099	Timer component - Should use thread name pattern so the thread name is aligned with the Camel threads
CAMEL-5100	Add option <code>autogenColumns</code> to csv data format in XML DSL
CAMEL-5101	Add some of the performance stats to the <code>CamelContextMBean</code>
CAMEL-5105	Add the options <code>configRef</code> and <code>strategyRef</code> to csv data format in XML DSL
CAMEL-5117	camel-twitter - Allow to configure twitter connection on component level
CAMEL-5121	Add <code>LifecycleSupport</code> class for end users to use as base class
CAMEL-5124	Use the <code>forkedProcessTimeoutInSeconds</code> option in maven-surefire-plugin to prevent hanging processes on Windows
CAMEL-5126	Improve the exception message if the throttlers header key/value is null
CAMEL-5128	Using custom <code>NodeIfFactory</code> should be auto discovered with XML DSL
CAMEL-5134	Add support for referring to headers using square brackets to Simple language
CAMEL-5135	Support excluding POJO fields during JSON marshalling
CAMEL-5136	File producer should support a flush attribute
CAMEL-5143	Add a new camel-mybatis <code>statementType</code> of <code>InsertList</code> to allow for mybatis foreach driven batch insert statements
CAMEL-5146	Let <code>ValueBuilder</code> be a predicate to make it easier to use predicates in the Java DSL

Enhancement	Description
CAMEL-5147	In the Java DSL method call expressions should be consistent and use method, and not bean as done in some places
CAMEL-5149	The default injector should perform bean post processing to setup @Produce and the likes on the bean
CAMEL-5150	In camel-netty remove options for pool size as Netty and rely on default implementation
CAMEL-5166	In camel-csv add an option to skip first line when unmarshalling
CAMEL-5167	<code>onException</code> policy within global context lost when error handler redefined within route context
CAMEL-5170	Add support for delete event in camel-zookeeper
CAMEL-5171	Favor static methods for type converters provided by Apache Camel components
CAMEL-5173	In camel-cxf remove convert from String -> List that assume its classes
CAMEL-5174	Avoid using <code>org.apache.activemq.util.ListEditor</code> with Apache Camel type converters
CAMEL-5175	Add utilization statistic to base type converter to gain better insight
CAMEL-5176	<code>CxfProducer</code> should not always leverage <code>toList</code> type converter to find out the parameters for invocation
CAMEL-5177	Avoid parsing URI each time when getting uri from endpoint
CAMEL-5178	<code>IOException: No space left on device</code> exception swallowed by camel
CAMEL-5184	Faster testing with seda endpoints by shutting down seda endpoints faster
CAMEL-5185	Disable the update checker of hazelcast
CAMEL-5188	Ensure all EIPs out of the box is enlisted in JMX and they expose performance stats
CAMEL-5189	The Bean component should preserve properties from exchange to allow to transfer state
CAMEL-5198	Implement connection pooling in jt400 component

Enhancement	Description
CAMEL-5202	Add option <code>eagerLimitMaxMessagesPerPoll</code>
CAMEL-5208	Optimize type converters for primitive types
CAMEL-5211	The netty consumer should use the non blocking routing engine
CAMEL-5216	<code>ConvertBodyTo</code> should reset message type like transform EIP does
CAMEL-5217	Bundle filter configuration in <code>CamelBlueprintTestSupport</code>
CAMEL-5220	Using <code>JdbcDataSourceName</code> with Quickfix component
CAMEL-5230	In camel-test-blueprint add support for using blueprint property placeholders
CAMEL-5232	In xslt component, if using http scheme for XSLT schema, then add support for query parameters in the http url
CAMEL-5241	Sanitize URI in debug messages
CAMEL-5242	In camel-jsch (a.k.a camel-scp) component doesn't support public-private key based authentication
CAMEL-5243	jt400: program call should support binary format
CAMEL-5245	Expose <code>ManagementName</code> in JMX API of <code>ManagedCamelContextMBean</code>
CAMEL-5247	Allow to send sync with quickfix, and detect send failures which should be marked as exceptions
CAMEL-5249	Include camel-blueprint in the camel feature
CAMEL-5252	Improved OGNL invocation with simple expression as functions for parameters
CAMEL-5254	Apache Camel Commands for the Apache Karaf shell should work with Apache Karaf 3
CAMEL-5255	Add all SNMPv1 TRAP PDU information to message body for camel-snmp component
CAMEL-5262	Relax simple language checking for function start/end tokens, to only validate start tokens has appropriate end token
CAMEL-5264	SNMP-Component doesn't response to INFORM-Traps

Enhancement	Description
CAMEL-5267	Improve camel-jaxb to be able to set a custom <code>NamespacePrefixMapper</code>
CAMEL-5270	Add community and peer address of SNMP TRAP PDUs to camel-snmp header
CAMEL-5275	Dependencies with inconsistent paths in repository
CAMEL-5287	Add <code>ExchangeSendingEvent</code> to event notifier
CAMEL-5289	<code>ExchangeSentEvent</code> should emit only trigger when callback done, to cater for late async replies
CAMEL-5291	Sanitize endpoint uri being logged in <code>toString</code>
CAMEL-5294	DSL expressions should auto trim
CAMEL-5295	Add support for escaping values to simple language
CAMEL-5297	Create a new component via Scala-Component-Archetype
CAMEL-5308	<code>Main</code> is bound to <code>DefaultCamelContext</code>
CAMEL-5310	Add more logging when using <code>SSLContextConfiguration</code>
CAMEL-5314	camel jclouds blobstore streaming support
CAMEL-5324	File consumer - Always include markerFile as readlock
CAMEL-5326	camel-bindy - Do not use locale if not explicit configured
CAMEL-5330	Support Camel-CXF's Provider's null response handling
CAMEL-5340	Add support for cross-origin filtering
CAMEL-5343	Improve Camel AWS-S3 to be able to only pick up specific files
CAMEL-5347	Add a component to support MQTT
CAMEL-5351	Support for tweeting with a <code>StatusUpdate</code> object
CAMEL-5365	<code>SOAPMessage</code> to <code>InputStream</code> conversion needed for some CXF <code>SOAPMessage</code> Provider scenarios
CAMEL-5371	We should create a new context per server
CAMEL-5380	<code>CamelBlueprintHelper</code> should provide a method for adding a customized <code>TinyBundle</code>

Enhancement	Description
CAMEL-5386	Allow to create scheduled thread pool in <code>threadPool</code> and <code>ThreadPoolBuilder</code>
CAMEL-5390	Option to assign unique correlation ID to JMS messages
CAMEL-5392	Optimize bean expression with local introspection cache to avoid re introspection when not needed
CAMEL-5395	camel-stream - Should ignore null bodies
CAMEL-5407	Better error message when trying to write a null body as file
CAMEL-5430	Remove un-necessary connections to the Twitter API
CAMEL-5436	Cache expects string in CacheKey header
CAMEL-5444	In camel-jms, log at INFO level if shared replyTo queues are in use, as they are not as fast as temporary or exclusive queues
CAMEL-5450	XSLT calls newTransformer per request
CAMEL-5460	<code>MockEndpoint.expectedBodiesReceivedInAnyOrder()</code> should allow asserting on the multiple arrival for the SAME body
CAMEL-5480	QuickFix session logs in before Camel routes are started
CAMEL-5508	Optimize property placeholder resolution at runtime to lookup configured properties component once
CAMEL-5513	Add option to changed readLock to denote whether a zero file size is accepted or not
CAMEL-5528	Improve how the AWS-SQS component create a new queue with additional attributes
CAMEL-5529	Shutdown Twitter instance if endpoint is shutdown
CAMEL-5530	Suggestion to replace <code>HBaseConstants</code> class with <code>HBaseConstants</code> interface and other minor changes
CAMEL-5531	Adding new <code>eventNotifiers</code> to a <code>CamelContext</code> from a separate thread while a <code>CamelContext</code> is starting (e.g. in OSGi) can lead to <code>ConcurrentModificationException</code>
CAMEL-5533	Add <code>loggingErrorHandler</code> support to Scala DSL

Enhancement	Description
CAMEL-5545	Support key password for private key access in XMLSecurity
CAMEL-5561	Allow <code>camel:run</code> to auto detect <code>OSGI-INF/*.xml</code> for blueprint XML files or <code>META-INF/beans.xml</code> for CDI to avoid users having to customize camel-maven-plugin configuration on a per project basis
CAMEL-5563	<code>ExecutorServiceManager</code> should shutdown thread pools less aggressively
CAMEL-5573	<code>RedeliverErrorHandler</code> only needs thread pool if redelivery has been enabled in any way
CAMEL-5577	In camel-quartz support the URL option <code>startDelayedSeconds</code>
CAMEL-5588	Camel CXF bundle should be able to work with Aries 1.0 in OSGI
CAMEL-5596	Using http and https to set the scheme of http4 client proxy
CAMEL-5607	<code>pax-logging</code> should use the API from Camel to manage thread pool
CAMEL-5623	Cache-Component doesn't work with decorated Caches
CAMEL-5624	An exception when constructing JT400 endpoints should not leak the password
CAMEL-5633	Camel bean method should be able to take out the annotation from interface
CAMEL-5638	If <code>consumer.bridgeErrorHandler</code> is enabled then let leverage it if poll strategy does a rollback
CAMEL-5656	JMXConnector is started async, should terminate thread after started to avoid keeping around
CAMEL-5676	Allow custom listener container in camel-jms
CAMEL-5678	It should be possible to clear the cached script in <code>LanguageEndpoint</code> via JMX
CAMEL-5688	LRUCache should stop service on eviction of eldest entry
CAMEL-5689	Netty should use ordered thread pool

Enhancement	Description
CAMEL-5691	In camel-smpp a possible <code>NullPointerException</code> causes inflight count to not deregister
CAMEL-5697	camel-mongodb operations don't transfer header values from IN to OUT
CAMEL-5702	In camel-netty the ordered thread pool should be shared
CAMEL-5703	Pool Channels instead of producers to make producer singleton
CAMEL-5711	Expose more elements of DeliverSM message to Consumer
CAMEL-5714	Throw a meaningful exception when the conetxt component cannot create a right endpoint
CAMEL-5736	Unary operators should be more lenient and only be applicable if previous node is a function expression
CAMEL-5739	Camel should validate on adding routes that if id is set then it must be unique
CAMEL-5744	Placeholders usage for QName types CXF endpoint attributes (BP version of CAMEL-4351)
CAMEL-5755	CXF endpoint's parameter <code>exceptionMessageCauseEnabled</code> not working for Camel CXF endpoints
CAMEL-5763	Enrich Camel message with JMSMessageID for InOnly messages sent to JMS destination
CAMEL-5767	Camel Splitter eat up exceptions recorded by the underlying Scanner
CAMEL-5770	<code>RoutePolicySupport</code> should provide some easy to use utility methods to suspend/resume routes as we have it already to start/stop routes
CAMEL-5781	Limitaions on s3 component. no means to specify acl on created object. objects do not inherit acl from the bucket they belong to.
CAMEL-5783	Option to add bundle directives in the generated test bundles by camel-test-blueprint
CAMEL-5784	Preparing loaded properties should only trim whitespace

Enhancement	Description
CAMEL-5785	Add support for handling long/short lines in Fixed Width Files in the Flatpack DataFormat
CAMEL-5789	<code>AbstractJdbcMessageIdRepository</code> should use the <code>@ManagedResource</code> and <code>@ManagedOperation</code> from Camel
CAMEL-5808	Add option to set buffer size
CAMEL-5813	Add support to convert from a Flatpack Dataset to an XML Document
CAMEL-5824	HBase data access performance improvement
CAMEL-5838	Erroneous option name in camel zookeeper component documentation: <code>awaitCreation</code> should be <code>awaitExistence</code>
CAMEL-5847	Add converters for files or inputstreams
CAMEL-5108	Need to be able to configure thread properties in camel-restlet in ESB
CAMEL-3547	Custom "absorbing" <code>PropertyPlaceholderConfigurer</code>
CAMEL-3551	camel-fop component
CAMEL-3776	Improve the performance for JAXB data format
CAMEL-3924	Add support for CDI
CAMEL-4017	Continue development of camel-twitter
CAMEL-4093	pop3 component parameter <code>deliverRawMailMessage</code>
CAMEL-4160	MockEndpoint - Add options to only keep X first / last messages
CAMEL-4309	Add option to destroy the message listener in an async thread
CAMEL-4498	camel websocket component
CAMEL-4713	Create a component for SSH
CAMEL-4743	Create a component for Hbase
CAMEL-4859	Create a component for Apache Avro
CAMEL-4878	Create a component for MongoDB
CAMEL-4923	Support Amazon DynamoDB in our camel-aws component

Enhancement	Description
CAMEL-4930	Provide a Data Format to convert XML <-> JSON directly (json-lib)
CAMEL-4964	BeanIO dataformat
CAMEL-4987	Provide first-class support for end-users using Spring Test based unit tests
CAMEL-4998	Provide the timeout option for the SpringWebserviceProducer
CAMEL-5015	Add support for keyed data queues
CAMEL-5020	Add support for scp
CAMEL-5043	Provision for setting a custom <code>SessionStateListener</code>
CAMEL-5057	A new stub component for easily unit testing with sending messages to/from an in-memory message queued endpoint
CAMEL-5071	Add SolrJ DirectXmlRequest support to camel-solr
CAMEL-5145	Support cdi annotations in beans / camel-cdi refactor
CAMEL-5155	Support JCR Component as Consumer
CAMEL-5168	Should support OSGi blueprint to run that easily out of container, using the pojosr framework
CAMEL-5226	Ability to set an Element's ttl and perhaps other properties when performing an add would be nice
CAMEL-5266	Add a camel karaf command to list camel endpoints
CAMEL-5280	Add option <code>isSecure</code> to allow to support wss protocol of WebSocket
CAMEL-5298	Support for <code>delaySeconds</code> property on SQS producer endpoints
CAMEL-5306	Support for sending <code>ChangeMessageVisibility</code> calls while processing SQS messages
CAMEL-5311	Spring Batch component
CAMEL-5341	Guava event bus integration
CAMEL-5349	Make it easy to provider override properties from unit tests
CAMEL-5369	Add wildcard support for karaf camel commands

Enhancement	Description
CAMEL-5370	New simple component for synchronous, cross-context messaging
CAMEL-5373	Add statistics to Karaf CamelContext info command
CAMEL-5374	Support searches on Twitter Search consumer endpoint based on Produced Exchange
CAMEL-5385	Allow developers to configure shared thread pool for scheduled consumers
CAMEL-5403	Type converter for NodeList with size 1 to Node
CAMEL-5521	Add option to file/ftp producer to move any existing file before writing
CAMEL-5575	Add new <code>HttpEndpoint</code> Option <code>httpHeaderFilterStrategy</code> on <code>Http4</code> component
CAMEL-5583	Add <code>ning-compress</code> as data format
CAMEL-5696	camel-mongodb write operations should have configurable option to put <code>WriteResult</code> in header
CAMEL-5812	Add <code>getContext()</code> method to <code>ProducerTemplate</code> interface
CAMEL-4470	Expose load statistics in Camel Karaf command
CAMEL-4471	Expose load statistics in Camel Web console
CAMEL-4867	Create camel-twitter feature
CAMEL-5061	Cleanup camel-websocket code a bit and ensure resources are deallocated when stopping
CAMEL-5062	Refer the Java Collection API classes by their interfaces and not through a specific given implementation
CAMEL-5339	camel-mail should exclude activation from dependency as its part of JDK now
CAMEL-5384	WireTap EIP is not backwards compatible with older releases
CAMEL-5534	OSGi split package <code>org.apache.camel.component</code> , both <code>camel-core</code> and <code>camel-spring</code> export
CAMEL-5600	<code>RestletEndpoint</code> updates it's URI with a list of a comma seperated values of the restlet Methods which ends with a comma character

Enhancement	Description
CAMEL-5276	Wish <code>ObjectHelper</code> wouldn't return false for a node without children
MR-536	Camel error handler logging - Should include <code>MessageId</code> as it can help end users to detect redelivery of JMS messages etc.
MR-566	Unmarshal data format should allow to return <code>Message</code> or <code>Exchange</code>
MR-574	Allow to explicitly configure management name pattern for Apache Camel in JMX
MR-578	<code>SedaConsumer</code> should not poll if <code>CamelContext</code> is starting
MR-584	<code>JmsConsumer</code> make it less verbose logging in case of an exception or TX rollback
MR-585	Remove format option on c24 data format as its not in use
MR-602	Allow to configure frequency of timeout checker when doing request/reply over JMS
MR-604	Aggregate EIP - Add support for <code>TimeoutAwareAggregationStrategy</code>
MR-606	Improve Type Converter
MR-610	Make it easy to use the splitter to split files by a number of lines into groups
MR-611	Misleading error message was thrown by camel-quartz component if camelContext ID was not unique
MR-612	Add the ability to determine if a <code>Synchronization</code> instance is part of a given <code>Exchange</code> instance
MR-613	Add a new interface <code>CompletionAwareAggregationStrategy</code> to allow invoker to be notified about the completion of an aggregation sequence
MR-620	Backport CAMEL-4950 to Fuse Camel 2.9 branch
MR-621	Failover EIP should detect graceful shutdown and prevent further failover attempts, to break out
MR-623	camel-restlet should preserve headers
MR-637	Camel Maven Archetype should generate source code without any license headers

Enhancement	Description
MR-638	camel-hdfs component should have some way of specifying number of retries or a timeout when HDFS file system is not available
MR-639	Backport support for soapjaxb dataformat to Fuse MR 2.9.0 & if possible 2.8.0 as well
MR-657	CxfConsumer should avoid using the async invocation with the decouple endpoints transport
MR-659	Make the Output stream size configurable in <code>org.apache.camel.converter.stream.CachedOutputStream</code>
MR-674	Improve router ftp poll speed for case when directory contains many files and <code>readLock=changed</code>
MR-676	Fuse MR Scala DSL splitter doesn't provide tokenizeXML
MR-677	Allow concurrentConsumers on listener on request/reply over JMS

Web services

[Table 6.4 on page 115](#) lists the enhancements between 7.0.2 and 7.1.

Table 6.4. Web services Enhancements in 7.1

Enhancement	Description
CXF-1636	Have WSS4J in/out interceptors require nonces and timestamps when using UsernameTokens?
CXF-3141	Move FIQL parser out to separate module
CXF-3352	Move <code>org.apache.cxf.clustering</code> out of <code>cxf-core</code> and into a separate project
CXF-3380	JAX-RS: Support writing to DataSources
CXF-3520	CXF support for cross domain SSO based on SAML token
CXF-3596	Update FailoverTargetSelector to do optional time delays between retries and retrying the same address for a number of times
CXF-3813	Possibility to only validate requests and/or responses
CXF-3983	OSGi configs for WorkQueues should use the ManagedServiceFactory pattern

Enhancement	Description
CXF-3985	Support for attributes with multiple values in <code>LdapClaimsHandler</code>
CXF-4010	Add ability to specific <code>EncryptionProperties</code> per STS instance
CXF-4014	Refactor OSGi classes for better readability
CXF-4030	externalize configuration of <code>org.apache.cxf.io.CachedOutputStream.Threshold</code>
CXF-4032	Optimize imports of cxf bundles and feature file for individual bundles
CXF-4033	Interceptor and Features annotations require context classloader
CXF-4038	Support XML Signatures on the server to the client path
CXF-4039	If the <code>wsdlLocation</code> is not a valid URL, you <code>class.getResource(...)</code>
CXF-4047	<code>OAuthContext</code> should provide an access to <code>OAuthPermissions</code>
CXF-4048	Make <code>cxf-rt-indings-soap</code> independent of <code>cxf-tools-common</code>
CXF-4049	Check external <code>CryptoProvider</code> from message context properties in <code>Wss4jInInterceptor</code>
CXF-4059	OAuth 2-leg flows can not be supported properly
CXF-4062	Enabling custom claim parser
CXF-4065	The CXF-API should not depend on other cxf modules
CXF-4069	JAXB <code>DataAdapter</code> should be in its own project
CXF-4073	Support multiple policy interceptor providers per policy assertion
CXF-4081	Move transports common (GZIP feature) into core
CXF-4092	Confusing error message "No initiator token id" in <code>AssymmetricBindingHandler</code>
CXF-4100	<code>OAuthDataProvider</code> is too limited with respect to dealing with the final authorization approval
CXF-4101	Minimize use of dynamic import
CXF-4102	Logging interceptors should show the binary content only when requested

Enhancement	Description
CXF-4107	JsonPInInterceptor should set a default callback value if no callback query parameter is available
CXF-4116	Equal URI templates should use a string comparison as the last step
CXF-4119	support Certificates revocation check before encrypt when use CXF WS-SecurityPolicy
CXF-4120	JMS Transport content-type should be consistent with the HTTP transport
CXF-4134	GZIPOutInterceptor compiles Patterns constantly; they should be compiled once and reused
CXF-4138	Fix the build hung of samples/jax_rs/minimal_osgi
CXF-4143	Make class name of PolicyBasedWSS4JOutInterceptorInternal externally available
CXF-4145	Add the ability to restrict what algorithms were used for encryption/signature
CXF-4146	Add the ability to use the same Encryption/Signature algorithms as was received
CXF-4152	Make cxf-codegen-plugin m2e compatible
CXF-4156	Support SymmetricKeys for Entropy/BinarySecret Elements
CXF-4157	Support batch processing via RequestSecurityTokenCollection.
CXF-4158	Support the renewal binding in the STS
CXF-4160	Support signing a SAML token using the requested signature and canonicalization algorithm
CXF-4161	Support processing a UseKey Element that uses a SecurityTokenReference to another token
CXF-4167	Configure CORS allowOrigins addresses in XML
CXF-4168	Support processing a KeyInfo/KeyValue child of UseKey in a RequestSecurityToken
CXF-4169	make nested exception causes available at the client
CXF-4176	preserve namespace prefixes in Transform Feature to support QName resolution for content

Enhancement	Description
CXF-4180	LogUtils should default to CXF's Slf4jLogger if it can't find Log4J or JCL driver
CXF-4182	Make javax.ws.provider.interpretNullAsOneway property configurable using a string value
CXF-4184	JMS transport w/ Text messages could stay as text
CXF-4189	Exception by None address in ReplyTo header for request-response MEP
CXF-4210	WS-Notification cannot send custom types
CXF-4215	Move Claim annotations from rt-rs-security-xml to the api module
CXF-4217	Introduce Nullable annotations to override the default handling of empty payloads by JAXB providers
CXF-4218	Change RMEndpoint and RMStore so that the sequences are recovered with the correct protocol versions and monitored under their endpoint
CXF-4219	Switch to using EhCache for the SecurityToken caching solution in the cxf-rt-ws-security module
CXF-4221	Support FIQL JPA Visitors
CXF-4223	Extend fault policy interceptors with POLICY_OVERRIDE
CXF-4225	Update JAXB providers to support Listener properties
CXF-4229	Make upgrading the WS-RM's RMTxStore's tables definitions easier
CXF-4230	Update Javadoc of GZIPFeature
CXF-4236	Changing Maven Name for CXF-Services from CXF Runtime to CXF Services
CXF-4246	replace asm:asm by a shaded jar
CXF-4248	DocLiteralInInterceptor throws NPE if oneWay operation sends non-empty response
CXF-4249	Add to RMTxStore configuration options for schema name and datasource
CXF-4252	cxf:list-endpoints karaf command should also have a busid column
CXF-4256	Improve the optional generation of enum classes by WADL generator

Enhancement	Description
CXF-4257	Should catch RejectedExecutionException in WS-Addr's rebaseReponse as done in OneWayProcessorInterceptor
CXF-4261	Add maxRetries option to WS-RM's retry logic
CXF-4270	Store bus-id with the endpoint name in WS-RM's RMTxStore to correctly recover two endpoints with the same endpoint name
CXF-4274	Support useReqSigCert for encrypting the responses from JAX-RS endpoints
CXF-4276	Make WS-RM's default store instance RMTxStore to be shareable
CXF-4282	Make additional properties of WS-RM's RMTxStore configurable using spring and blueprint namespace handlers
CXF-4287	Modify -validate flag of wsdl2java to allow turning off all validation
CXF-4290	Allow user-specified classloader for JAXRSCientFactory
CXF-4304	Complete WSA support for STS client configuration via EPR
CXF-4308	Add option for disabling STS client WS-MEX invocation using WSA EPR address
CXF-4311	WADL to Java generator should try to create unique method names when no method ids are available
CXF-4314	Introduce a search bean which can hold properties with different names
CXF-4320	Add the ClaimsAttributeStatementProvider by default to the SAMLTokenProvider
CXF-4322	Update RequestDispatcherProvider to do the basic discovery of view handlers based on the current class name
CXF-4323	Should use documented Jetty continuation API
CXF-4326	Remove the XPathFactory.newInstance from XPathUtils' constructor to improve the performance a bit
CXF-4327	Add blueprint support on the cxf-clustering
CXF-4330	Enforce that received IssuedTokens contain the required claims

Enhancement	Description
CXF-4332	Add an option to validate access tokens against remote OAuth2 AccessTokenServices
CXF-4338	config option to allow suppression of server version display in http response headers
CXF-4343	Remove static maps in AbstractResourceInfo
CXF-4344	Provide simplifications and shortcuts in CXF STS configuration
CXF-4345	Allow user-specified feature for JAXRSClientFactory
CXF-4350	CXF JMS transport should support to JAXRS frontend client out of box
CXF-4358	Support KeyValueTokens via the Transport binding
CXF-4361	Add support for processing EncryptWith and SignWith parameters in a RST to the STS
CXF-4362	Add a reconnect option in WS-RM RMTxStore
CXF-4363	JMS transport uses the "clientReceiveTimeout" on server side
CXF-4370	Support the ability to decrypt encrypted Assertions for SAML Web SSO
CXF-4377	Allow CXF "servlets" to be used as Filters
CXF-4390	JAXRS Client runtime should be able to work with Local transport
CXF-4392	Easier customization of log messages in Logging[In Out]Interceptor
CXF-4394	should add dependency='true' for spec bundles in cxf features.xml
CXF-4395	ClaimsAttributeStatementProvider add claims for subject of onbehalf/actas
CXF-4398	Handling of 303 redirections
CXF-4399	Adding the instance.id to the ObjectName
CXF-4400	AbstractHTTPServlet should be able to set custom redirect attributes and read specific static files
CXF-4413	CXFNonSpringJAXRSServlet needs to support out fault interceptors and custom invokers

Enhancement	Description
CXF-4415	Update SearchContext to make it easy for users to do basic hierarchical queries
CXF-4419	Add support for OAuth2 Resource owner password credentials Grant type
CXF-4423	more flexibility in configuring httpconduit's tlsClientParameters in spring and blueprint
CXF-4431	Add support for OAuth2 'mac' token type
CXF-4438	more flexibility in configuring tlsServerParameters in spring and blueprint
CXF-4453	Make the CryptoCoverageChecker easier to use for common signature verification and decryption use-cases
CXF-4479	Improve "No namespace on "{0}" element" error message.
CXF-4485	Provide optional support for inheriting WADL resource parameters
CXF-4488	Making importing com.sun.tools* packages by cxf-rf-databinding-jaxb optional in CXF 2.6
CXF-4490	cxf-codegen-plugin does not detect changes in WSDL loaded from classpath
CXF-4495	Extend SimpleAuthorizingInterceptor to check only configured roles
CXF-4497	Configure WSDL generation to ignore jaxb.index and ObjectFactory
CXF-4501	AtomPojoProvider should be able to get the entry content directly from POJO
CXF-4515	maven java2ws plugin address configuration
CXF-4519	Make it possible to specify schemas specific to individual types
CXF-4521	Optimization for other stax implementations
CXF-4532	Java First @Policy support bean references
CXF-4619	cxf:list-endpoints - Duplicate headers if multiple endpoints installed
CXF-4622	cxf:list-endpoints - Add option to list the full url of the service
SF-397	JMX support of the CXF WS-Notification service

Enhancement	Description
SF-422	CXF JAXWS MTOM should be able to extract Content-Disposition and setName accordingly for AttachmentDataSource
CXF-2864	Support UsernameToken derived keys
CXF-3635	WS-Trust SPNego (WCF message level spnego)
CXF-3743	register extensions with CXFNonSpringJaxrsServlet
CXF-3882	Support for Claims transformation in validate or issue RST
CXF-4021	Claims element support in RST for validate binding
CXF-4083	Blueprint http-jetty
CXF-4084	Blueprint http
CXF-4091	add a robust in-only processing option for oneway call
CXF-4093	NameIDFormat of SAML Subject configurable
CXF-4096	add a robust in-only processing option for oneway call with WS-Addressing
CXF-4112	Support for OAuth 2.0 Authorization Code Grant
CXF-4151	Support for OAuth 2.0 Client Credentials
CXF-4173	Support for ClaimValue element of federation claims dialect added
CXF-4179	Introduce ContextProvider extension
CXF-4209	Server side message redelivery support for WS-RM
CXF-4212	Support RBAC in JAX-WS WebServiceContext based on received SAML token
CXF-4359	ParameterizedType#getActualTypeArguments() classes not added to the JAXBContext for JAX-RS providers
CXF-4460	Support static claims globally and per endpoint
CXF-3589	Support SAML Web SSO profile
CXF-3562	Remove HttpURLConnection references from CXF JAX-RS client code
CXF-4076	Remove the cxf-rt-bindings-http module
CXF-4079	Move some optional JAX-RS providers to a separate module

Enhancement	Description
CXF-4087	Move SourceGenerator code to tools/wadlto and drop CodeGeneratorProvider
CXF-4135	Allow xsd shema file as a jaxb binding file to pass into JAXB schmeCompiler
CXF-4198	Move optional JSONProvider to rt-rs-extension-providers
CXF-4247	Add cache for not found wrapper class to avoid trying load them for many times
CXF-4381	Add optional DOM4J provider
CXF-4389	Move FiqlParser to its own package
CXF-4430	Make SpnegoAuthSupplier functionality reusable, add the server side filter
CXF-4428	[OAuth1.0] allow to set response codes when throwing exception from OAuthDataProvider implementation

Container

[Table 6.5 on page 123](#) lists the enhancements between 7.0.2 and 7.1.

Table 6.5. Container Enhancements in 7.1

Enhancement	Description
ARIES-315	Blueprint-cm and the cm-properties element
ARIES-467	Internationalization of Apache Aries
ARIES-542	Use of PlatformRepository in resolvers needs to be more flexible
ARIES-545	Modelling classes are missing equals() methods
ARIES-557	Resolver exception should include more information about nature of missing requirements
ARIES-567	Create common utility method for service unregistration
ARIES-574	Expose ModelledBundleResource
ARIES-581	Provide a java6 parent
ARIES-583	Update the application components to use the ext:default capability for default service implementations
ARIES-601	Add service ranking to re-registered XA data source

Enhancement	Description
ARIES-638	Logging improvements in <code>AriesApplicationManagerImpl</code>
ARIES-649	Move <code>ServicePair</code> from <code>jndi</code> to <code>util</code> so it can be used more widely
ARIES-652	Improvements to <code>IFile</code> API
ARIES-657	Enhanced support for custom scopes
ARIES-671	Proxy code memory usage is high for generated interface proxys
ARIES-676	Make Aries bundle modelling API consumable by non-OSGi clients
ARIES-686	Implement the JMX spec MBeans using the whiteboard pattern
ARIES-701	Use <code>IdentityHashMap<Object, MBeanHolder></code> to map registered services to <code>MBeanHolders</code>
ARIES-702	Use introspection to find the <code>MBean</code> interface
ARIES-713	Support using a <code>ScheduledExecutorService</code> for blueprint that is in the service registry
ARIES-715	Add support for <code>InputStream</code> based <code>IDirectory</code>
ARIES-716	Allow plugins to extend the Aries Application Modeller
ARIES-722	Enabling debug for blueprint itests is too hard
ARIES-740	Add method to resolve without repositories to <code>AriesApplicationResolver</code>
ARIES-741	JPA container should auto-enlist JTA <code>XADatasources</code>
ARIES-779	<code>AbstractPropertyPlaceholder</code> should be exported by <code>blueprint-core</code>
ARIES-786	Ability to control the list of woven classes using system properties
ARIES-790	Add a public API for injecting properties into a pre-created object
ARIES-792	Add EJB Modeller code to the Standalone Application Modeller

Enhancement	Description
ARIES-806	Align Bundle-Name of the JMX Whiteboard bundle with other JMX bundles
ARIES-821	Allow mixtures of interfaces and classes in proxys
ARIES-823	Cope with badly written <code>ObjectFactoryS</code>
ARIES-826	Provide a hook into the proxy weaver to enable smart decision making
ARIES-837	Modify default of Export-EJB: header to be ALL when empty string
ARIES-845	Support unwrap and <code>isWrappedFor</code> functions with older JDBC drivers in <code>ConnectionWrapper</code>
ARIES-855	Blueprint should attempt to load static nested classes when the initial attempt to load a class has failed
ARIES-873	Allow transactionManager Identity to be specified via configuration <code>aries.transaction.tmid=MyUniqueId</code>
ARIES-536	Have a way to specify a blueprint bundle should be started in sync with the start level service as much as possible
ARIES-578	Provide hook point for different Blueprint transaction interceptor similar to JPA hook point for persistence units
ARIES-633	Improve proxy support for final classes and final methods
ARIES-636	Support load-time weaving and Annotation scanning in the JPA container when running on OSGi 4.3
ARIES-644	Replace Scope Admin with Region Digraph
ARIES-718	EJB support in Apache Aries
ARIES-727	support syntax : <code>\${a+b}</code> in blueprint-cm
ARIES-732	The ability to exclude bundles from the archive while still having them listed in <code>Application-Content</code> header
ARIES-733	Add <code>Use-Bundle</code> header to the <code>APPLICATION.MF</code> using maven-eba-plugin
ARIES-737	Provide initial support for embedded subsystems
ARIES-739	Update code based on latest resource, resolver, repository, and subsystem APIs

Enhancement	Description
ARIES-757	Contribute semantic versioning check tool
ARIES-773	Usage of a Configuration Admin service within an isolated application framework
ARIES-825	Update subsystems to latest Subsystem, Resolver, and Repository APIs
ARIES-888	Add a bundle to support JMS with the transaction manager
ARIES-890	Add support for recovery of JDBC XA transactions
ESB-1657	Add schema definition support for Spring/Blueprint deployer
FELIX-908	Unsyncronize access to bundle state inside <code>BundleInfo</code> by making the variable volatile
KARAF-1010	Add 64Bit service wrapper
KARAF-1023	Add karaf activators for jars in the lib folder
KARAF-1045	Improved help system
KARAF-1072	Provide man command as an alias to help
KARAF-1129	Allow configuring rmi Registry host as well as port
KARAF-1153	Jetty feature should also install the jetty-websocket bundle
KARAF-1191	Switch back to milliseconds per default on shell:sleep and introduce <code>-s</code> option
KARAF-1245	Blueprint deployer and Spring deployer should get started before <code>features.core</code> bundle
KARAF-1261	JAAS commands should allow you to distinguish between to realms that have the same name
KARAF-1271	Feature service should log in DEBUG instead of INFO
KARAF-1280	Add wrap third party jar example
KARAF-1283	Add a simple OSGi bundle demo to deployer examples
KARAF-1292	Add a feature demo
KARAF-1295	<code>serviceUrl</code> in <code>org.apache.karaf.management.cfg</code> should use <code>0.0.0.0</code> but not <code>localhost</code>

Enhancement	Description
KARAF-1300	Features management should be more robust if customer features descriptor file has duplicated feature name
KARAF-1328	jclouds feature repo url has been changed after version 1.0
KARAF-1385	Be able to disable the default <code>PropertiesLoginModule</code>
KARAF-1396	<code>config:list</code> command description should be enhanced
KARAF-1410	Error in stop script if <code>KARAF_DEBUG</code> is enabled
KARAF-1499	<code>InfoAction</code> shell command should sort the properties from <code>InfoProvider</code> instances
KARAF-1500	Forgot a space between hours and minutes in <code>InfoAction.java</code>
KARAF-1521	<code>add-features-to-repo</code> goal should define a correct default value for repository
KARAF-1558	Instance clone should be able to clone the root instance
KARAF-1562	Improve message displayed when the JAAS login module doesn't have a backing engine
KARAF-1574	When two karaf containers are started locally, an exception is displayed at startup. A nicer message would be better.
KARAF-1575	Features provided by Apache Karaf do not have any description
KARAF-1586	wrapper:install command should be usable outside OSGi too
KARAF-1600	Avoid duplicate feature and bundle resolution when installing cascading features
KARAF-1640	Make sure the local console is fully working before the user can type commands
KARAF-1657	<code>org.ops4j.pax.url.mvn.proxySupport=false</code>
KARAF-1676	OBR URL's in Apache Karaf have no simple identifier
KARAF-1693	Rename <code>command-watch</code> to <code>watch</code>
KARAF-1749	The command packages:imports should work on unresolved bundles

Enhancement	Description
KARAF-1752	Hard coded features uri in features deployer feature discovery
KARAF-1757	Welcome message incorrect during ssh session or using bin/client
KARAF-1810	Provide alias for feature:repo-add
KARAF-1812	Use Felix properties and remove <code>org.apache.karaf.util.Properties</code>
KARAF-1813	Add <code>osgi:name</code> and <code>name</code> attribute in <code>SystemMBean</code>
KARAF-1833	Reintroduce the -p option in the client
KARAF-1834	Make KarafTestSupport available externally
KARAF-1836	Provide a login module class name completer
KARAF-1844	Add command aliases for migration purpose between 2.3.x and 3.x
KARAF-1850	feature:list should use alphabetical order
KARAF-1878	Feature bundle start up order by startLvl
KARAF-1924	Fix the WARN logs from starting a vanilla Karaf 2.3.0
KARAF-1951	Remove workaround for KARAF-1117
KARAF-447	Add JDBC lock implementation for PostgreSQL
KARAF-693	<code>features:addurl</code> raises "Premature end of file" when network is not available
KARAF-916	Use <code>org.apache.aries.jmx.core</code> instead of <code>org.apache.aries.jmx</code>
KARAF-999	local-repo folder shouldn't be used
KARAF-1132	Introduce new command <code>feature:chooseurl</code> to make it easy to install well known feature files
KARAF-1196	Implement a watch command so we can watch the output of a karaf command like the unix 'watch' mechanism
KARAF-1334	Use the new servicemix spec to allow the use of both the JRE implementations and implementations from bundles

Enhancement	Description
KARAF-1475	Support SSH agent forwarding and use the agent authentication when connecting to other instances
KARAF-1546	Add <code>-i/--install-all</code> option to feature:add-url
KARAF-1792	Add karaf-pax-exam
KARAF-1806	Add version attribute in the SystemMBean
KARAF-1910	Provide Spring 3.1.2.RELEASE features
KARAF-32	Support ssh public key authentication and agent forwarding
KARAF-581	Also make <code>rmiRegistryHost</code> configurable
KARAF-866	New dev:wait-for-service command to wait for a given OSGi service
KARAF-908	Provide a way to access system properties easily in the shell
KARAF-977	config propset , propappend & proppedel could use some autocompletion

Fabric

[Table 6.6 on page 129](#) lists the enhancements between 7.0.2 and 7.1.

Table 6.6. Fabric Enhancements in 7.1

Enhancement	Description
FABRIC-255	Allow configuration of default JVM options that can be applied to new child containers
FABRIC-256	Provide fabric commands to list and display OSGi features
FABRIC-260	Resolver handling needs to be more flexible and configurable
FABRIC-271	Fabric dosgi should respect the container resolver
FABRIC-284	Ensure that features in a profile are deployed before bundles
FABRIC-296	Provide a Fabric profile out-of-the-box that deploys all relevant Camel JMS and ActiveMQ features/bundles
FABRIC-314	Remove container-create command
FABRIC-329	Secure jolokia

Enhancement	Description
FABRIC-281	Secure ZooKeeper
FABRIC-289	Add support for deploying Apache Directory in Fabric
FABRIC-316	Make sure that no default credentials and no default key are present in the distros

Chapter 7. Apache Dependencies

The following Apache projects are used in 7.1:

Apache ActiveMQ

Fuse ESB Enterprise includes Apache ActiveMQ 5.7.0.fuse-71-047

Apache Karaf

Apache ActiveMQ includes Apache Karaf karaf-2.3.0.fuse-71-047

Apache CXF

Fuse ESB Enterprise includes Apache CXF 2.6.0.fuse-71-047

Apache ServiceMix

Fuse ESB Enterprise includes Apache ServiceMix
servicemix-4.5.0.fuse-71-047

Apache Camel

Fuse ESB Enterprise includes Apache Camel 2.10.0.fuse-71-047

Chapter 8. Rollup Patch Version 7.1.1

Overview

[Table 8.1 on page 133](#) shows what is new in ActiveMQ, June 19, 2013.

Messaging

Table 8.1. Messaging Issues in Version 7.1.1

Bug	Description
AMQ-4254	BrokerXmlConfigStartTest fails intermittently
AMQ-4260	MessageGroupLateArrivalsTest fails intermittently
AMQ-4397	XSS vulnerability in scheduled.jsp
AMQ-4398	XSS vulnerability in demo web application
AMQ-4486	ActiveMQResourceAdapter.getXAResources() broken
AMQ-4548	KahaDB can recover old inflight XA transactions that keep logs from being cleaned up.
ENTMQ-112	BTreeIndexTest hangs when run on Windows
ENTMQ-165	CompressionOverNetworkTest fails intermittently under Hudson
Improvement	Description
AMQ-4124	Disable sample web application from out of the box broker
Task	Description
AMQ-4524	Remove camel-jetty dep from project

Container (ServiceMix NMR)

[Table 8.2 on page 134](#) shows what is new in ServiceMix NMR, June 19, 2013.

Table 8.2. ServiceMix NMR Issues in Version 7.1.1

Bug	Description
SMX4NMR-307	org.apache.servicemix.nmr.osgi can throw an exception when shutting down

Fuse ESB/MQ/Fabric/FMC

[Table 8.3 on page 134](#) shows what is new in Fuse ESB/MQ/Fabric/FMC, June 19, 2013.

Table 8.3. Fuse ESB/MQ/Fabric/FMC Issues in Version 7.1.1

Bug	Description
ENTESB-487	camel-spring is listed 2 times in boot features in esb-minimum
ENTESB-498	Feature dependencies not being installed in Fabric
ENTESB-522	Camel Master Component Ignoring parameters
ENTESB-523	Camel Fabric component doesn't take the parameters into consideration
ENTESB-748	Unable to install patch for Fabric in 7.1.0.fuse-047 release
ENTMQ-314	Broker should restart if it stops itself (for example due to losing a lock).
FABRIC-352	The installation path for a remote ssh container is ignored
FABRIC-353	Manually Modifying the karaf.name causes problems when adding containers to an ensemble
FABRIC-359	Fabric loadbalancer attempts to access inactive container
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-397	Unable to provision FAB on remote fabric container
FABRIC-398	Features Repository not able to be resolved
FMC-442	Save profiles to file does not store the abstract attribute
FMC-443	Export and import of profiles has some issues - eg version numbers not honored, and truncating data
FMC-453	Profiles page needs initial loading widget

Bug	Description
FMC-455	Creating profiles with spaces cause an Error Failed to access container details message in the FMC Containers tab
FMC-458	Wrong table layout when inputting a very long string to input fields in Web Console
FMC-459	Wrong behaviour of input fields, when using right arrow button to edit text while creating container in Web Console
FMC-460	'Error uploading patch file' occurs when no patch is specified for upload in Web Console
FMC-461	Patching Successful message occurs, no matter which .zip file was uploaded as patch(or no file was uploaded)
FMC-462	User always has admin rights, no matter if he has admin role assigned to him in Web Console
FMC-471	FMC Memory Leak of org.fusesource.fabric.jaas.ZookeeperProperties
FMC-477	After changing admin password container Details opening fails with exception.
FMC-483	nulls characters in imported profile files
Improvement	Description
ENTESB-539	remove geronimo-servlet_2.5 bundle from servicemix-http feature
FABRIC-377	Create a command for profiles to pick up new versions
FABRIC-391	Unable to create child container on remote root container using oracle JDK 7 on linux
New Feature	Description
ENTESB-603	cx-fabric need to support to publish the full qualified address when it uses the OSGi servlet transport
ENTESB-604	cx-fabric need to support to webclient which is used for the CXF JAXRS

Task	Description
ENTESB-536	ensure to use wss4j 1.6.9 for JBoss Fuse 6

ServiceMix Features

[Table 8.4 on page 136](#) shows what is new in ServiceMix Features, June 19, 2013.

Table 8.4. ServiceMix Features in Version 7.1.1

Bug	Description
ESB-1764	jpa-hibernate feature does not install correctly with equinox
SMX4-1273	cxfr-nmr transport should copy the message header which value is String as the Protocol Header
SMX4-1472	servicemix-camel component should honor the synchronous option
Improvement	Description
SMX4-1316	add address/endpointName for dispatch process for CXF NMR transport
SMX4-1378	cxfr-nmr transport should copy the message header from CXF the Protocol Header

JB (ServiceMix Components)

[Table 8.5 on page 136](#) shows what is new in ServiceMix Components, June 19, 2013.

Table 8.5. ServiceMix Components Issues in Version 7.1.1

Bug	Description
ENTESB-638	Sync jetty version between poms and features
SMXCOMP-956	AsyncBaseLifeCycle should be able to return ErrorMessageExchange if provider threadpool is run out
SMXCOMP-963	StaticRoutingSlip doesn't propagate errors to the caller endpoint when some endpoints in the slip doesn't exist
SMXCOMP-964	Camel doesn't return error while invoking jbi endpoint which doesn't exist, setting up a infinite loop on retry.

Bug	Description
SMXCOMP-965	HttpConsumerEndpoint invokes sendError with null exchange

Container (Apache Aries)

[Table 8.6 on page 137](#) shows what is new in Apache Aries, June 19, 2013.

Table 8.6. Apache Aries Issues in Version 7.1.1

Bug	Description
ARIES-1004	When the framework is being shut down, blueprint bundles are not shut down orderly
ARIES-962	Deadlock while stopping OSGi container
ARIES-983	The BundleHookBundleTracker has an invalid logic wrt initially tracked bundles
ARIES-984	When shutting down, the JMX agent should wait for threads to be terminated
ARIES-985	Improve robustness of JMX Blueprint bundle activator
ARIES-986	The blueprint extender does not support high concurrency very well
ARIES-988	The proxy manager should unregister its service
ARIES-991	Concurrency issue which can cause a service to be kept registered

Container (ServiceMix Specs)

[Table 8.7 on page 137](#) shows what is new in ServiceMix Specifications, June 19, 2013.

Table 8.7. ServiceMix Specification Changes in Version 7.1.1

Bug	Description
SMX4-1373	infinite loop in BundleFactoryLoader
SMX4-1447	can't endorse activation smx activation-api-1.1 spec jar

Routing (Apache Camel)

[Table 8.8 on page 138](#) shows what is new in Apache Camel, June 19, 2013.

Table 8.8. Apache Camel Issues in Version 7.1.1

Bug	Description
CAMEL-5358	camel-castor does not work in apache service mix modules
CAMEL-5459	Folder closed too early when working asynchronously
CAMEL-5748	ClassLoader mixup in Direct VM component
CAMEL-5774	ActiveMQ target endpoint with transferExchange=true does not work together with source File endpoint with preMove option set
CAMEL-5821	Camel Jetty chunked parameter appears broken
CAMEL-5837	Problem with nested schema imports when upgrading from 2.8.6 to 2.10.2
CAMEL-5839	camel-zookeeper: The usage of the endpoint's option 'awaitExistence' would have no effect
CAMEL-5866	Pass Exchange param to TypeConverter.convertTo calls where possible
CAMEL-5877	Sporadic Source Conversion issues with CxfPayload
CAMEL-5880	camel-quickfix: QuickfixjEndpoint should adhere the InOut exchange pattern if you would ask for this MEP
CAMEL-5887	Unexpected behavior when combining onException and multiple adviceWith in camel-core
CAMEL-5888	When call removeRouteDefinition the route doesn't removed from collection of route Definitions.
CAMEL-5890	NPE when jaxb fallback converter is used with RequestEntityConverter
CAMEL-5897	Nullcheck missing in CxfPayloadConverter
CAMEL-5899	camel-netty - Producer should avoid blocking while waiting for connection
CAMEL-5900	StreamResequencer does not resequence correctly
CAMEL-5907	Camel leaks memory on undeploy / redeploy in app server when JMX enabled and createConnector = true
CAMEL-5908	Websocket consumer cannot be started, because of NPE
CAMEL-5917	camel-jms - JmsPollingConsumer use the constant fields from JmsTemplate for receiveNoWait etc
CAMEL-5925	NullPointerException in RouteContextProcessor

Bug	Description
CAMEL-5942	Custom URIResolve not used to load XSTL script
CAMEL-5943	camel-hl7 marshal charset error
CAMEL-5948	ObjectHelper.createIterator() should properly handle the array of primitive types e.g. int[]
CAMEL-5949	XML DSL - Should not have default values in errorHandler
CAMEL-5950	Cache producer is not thread safe
CAMEL-5951	Camel-syslog dataformat broken with netty transport
CAMEL-5953	Java DSL: unmarshal() inside choice() blocks adding more conditions
CAMEL-5965	Camel feature file doesn't validate
CAMEL-5968	ClassNotFoundException: weblogic.jndi.WLInitialContextFactory when starting the route via Karaf start-route(camel:route-start) command.
CAMEL-5973	Property placeholder with both blueprint and jasypt seems not working
CAMEL-5981	Enrich EIP may cause async callback done twice
CAMEL-5987	Using annotations DSL in beans may cause async callback to be called twice
CAMEL-5999	RestletComponent component is not removing added route from routers list although route is removed from Context.
CAMEL-6005	multicase shareUnitOfWork just throw one exception in the first time
CAMEL-6013	Validator component fails on XSD with indirect relative import
CAMEL-6025	NumberFormatException when using File over JMS
CAMEL-6035	interceptSendToEndpoint with a DelegateAsyncProcessor fails
CAMEL-6038	Possible NPE is OSGi bundle has no symbolic name
CAMEL-6045	Camel Email Component Missing Attachments
CAMEL-6046	sftp: noop=true&idempotent=false doesn't work
CAMEL-6048	XML-files containing attributes called "type" does not get converted to json
CAMEL-6056	Moving files on FTP not working

Bug	Description
CAMEL-6059	camel-rss and camel-atom - Not installable in Karaf
CAMEL-6064	Wire Tap onPrepare should process new Exchange
CAMEL-6069	java.io.IOException: Permission denied from MarkerFileExclusiveReadLockStrategy.acquireExclusiveReadLock on NAS
CAMEL-6072	Service Shutdown logic may execute N times
CAMEL-6073	Pairs of VM producer-consumer disconnect when OSGi bundle is restarted
CAMEL-6078	Multiple http4 components modify each other port setting
CAMEL-6081	gzip dataformat - Ensure input stream is closed if exception thrown
CAMEL-6089	CXFEndpoint blueprint config having binding element may lead to NPE
CAMEL-6097	Race condition in AggregatorProcessor recovery sometimes causes duplicates
CAMEL-6123	camel-jms: InOut exchange can time out even if response was received
CAMEL-6127	Its impossible to inject a custom InflightRepository due to a copy-and-paste bug
CAMEL-6128	JAXB fallbackConveter unmarshal falls with XStreamReader
CAMEL-6129	Simple language - bean function - issue when parameter value has comma
CAMEL-6130	EndpointHelper.setReferenceProperties() does not work with OSGiServiceRegistry
CAMEL-6133	Logger destroys SaxSource
CAMEL-6135	CompositeRegistry should catch the exception when it lookup the component across the registry
CAMEL-6155	Camel stream producer never close the stream of file
CAMEL-6172	Aggregate EIP - Completion from batch consumer should trigger first
CAMEL-6173	camel-http - When bridging endpoints then there may be double parameter values if client sends uri parameters

Bug	Description
CAMEL-6175	camel-jetty - Issue when bridging with jetty http producer and uri query parameter has encoded value
CAMEL-6179	Simple expression in spring XML not work if it come in multiple xml lines
CAMEL-6189	Camel cache: CamelCacheCheck and expiry on cached elements
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-6202	Missing log parameter placeholder in routepolicy.quartz.ScheduledRoutePolicy
CAMEL-6204	loadResourceAsStream in ObjectHelper could not load resource with leading "/"
CAMEL-6255	NotifyBuilder - whenSentTo - Should be per exchange and not a shared state
CAMEL-6257	CXF Example OSGi fail in Karaf
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-6276	camel-example-spring-jms failed
CAMEL-6284	camel-fop - Does not propagate headers
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-6311	DeadLetterChannel - When messages sent to DLQ it should always regard it as handled = true
CAMEL-6313	Property placeholder optimization broke placeholders in Spring camelContext configuration
CAMEL-6322	camel-example-cxf-osgi camel-example-cxf-blueprint have some warning when running the test

Bug	Description
CAMEL-6328	Simple expression and predicate have different behaviors when used along with properties
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
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-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-6404	cCXF route proxy cannot return Fault message to client when Dataformat is CXF_MESSAGE
CAMEL-6421	Graceful shutdown with maximum redeliveries enabled from seda route may hang
ESB-1763 http://fusesource.com/issues/browse/ESB-1763 (CAMEL-6068)	- CamelBlueprintContext may be wrongly started and this may lead to a deadlock
MR-681 http://fusesource.com/issues/browse/MR-681 (CAMEL-5871)	Merge changes from CAMEL-5871 to Fuse Branches
MR-682 http://fusesource.com/issues/browse/MR-682 (CAMEL-5971)	HdfsOutputStream is not closing
MR-683 http://fusesource.com/issues/browse/MR-683 (CAMEL-5975)	camel-example-jmx - Does not work in Fuse ESB
MR-685 http://fusesource.com/issues/browse/MR-685 (CAMEL-6020)	Camel Transformer using inconsistent sources
MR-686 http://fusesource.com/issues/browse/MR-686 (CAMEL-6023)	ConfigAdmin changes that trigger a reload will not restart Blueprint Camel routes
MR-691 http://fusesource.com/issues/browse/MR-691 (CAMEL-6142)	camel-hdfs component does not work in Fuse ESB 7.1 OSGi environment
MR-697 http://fusesource.com/issues/browse/MR-697 (CAMEL-6084)	SOAP over JMS does not work with camel-cxf endpoint (async)
MR-698 http://fusesource.com/issues/browse/MR-698 (CAMEL-5865)	camel-jms component tries to use deleted temp destination
MR-703 http://fusesource.com/issues/browse/MR-703 (CAMEL-5913)	Camel double encoding uri parameters
MR-706 http://fusesource.com/issues/browse/MR-706 (CAMEL-6199)	Connection Pools and other resources are not cleaned up when route is shutdown and removed

Bug	Description
MR-707 http://fusesource.com/issues/browse/MR-707](CAMEL-6220	number of child services started seems to be increasing by one each time the route is restarted
MR-708 http://fusesource.com/issues/browse/MR-708](CAMEL-6259	Aggregator Thread Pools remain after route has been shutdown
MR-711 http://fusesource.com/issues/browse/MR-711](CAMEL-6283	ClassLoadingAwareObjectInputStream uses its own TCCL
MR-714 http://fusesource.com/issues/browse/MR-714](CAMEL-6305	debugBefore() and debugAfter() not called if unit test extends CamelBlueprintTestSupport
MR-716 http://fusesource.com/issues/browse/MR-716](CAMEL-6079	Bad AOP proxy causes camel to fail while starting.
MR-720 http://fusesource.com/issues/browse/MR-720](CAMEL-5957	AggregationStrategy fails when completionSize is used as an expression (rather than value)
MR-722 http://fusesource.com/issues/browse/MR-722](CAMEL-5994	Camel endpoints may not be called on quartz fire after some days of uptime
MR-724 http://fusesource.com/issues/browse/MR-724](CAMEL-6417	Two camel-https4 producer endpoints configured with different sslContextParametersRef in separate routes in the same CamelContext does not work properly
Improvement	Description
CAMEL-5359	camel-castor does not use mapping file to convert XML to Java
CAMEL-5708	Make camel-smpp component get username from parameters instead of address
CAMEL-5872	camel-scala - Add convertBodyTo to its DSL
CAMEL-5889	Scala DSL: no tokenize("...") method
CAMEL-5926	SpringIntegrationConsumer should honor the 'inOut' instance variable by setting the MEP and sending back message headers
CAMEL-5938	MailConverters fails with uppercase content type TEXT/PLAIN
CAMEL-5944	Setting extendMessageVisibility on an SQS consumer doesn't make visibilityTimeout compulsory
CAMEL-5945	Add delimiter to recipient list eip in Java DSL
CAMEL-5955	Put the LocalAddress into the message header
CAMEL-5959	Dead Letter Channel - Store failed route id on Exchange
CAMEL-5962	xslt component - Should fallback and use same scheme prefix as endpoint configured for included resources

Improvement	Description
CAMEL-5974	camel-jms: Make ThreadPoolTaskExecutor the default Task Executor
CAMEL-5990	Upgrade to QuickFIX/J 1.5.3
CAMEL-5995	Improvement of InstrumentationProcessor
CAMEL-6008	camel-netty - Initialize SSLContext once if using camel JSSE configuration
CAMEL-6051	ClassResolver - Add support for Object[] arrays
CAMEL-6100	ManagedAttribute annotated method in JmsEndpoint does not return a standard type
CAMEL-6102	direct-vm component - Should support the async routing engine
CAMEL-6105	Make DirectProducer throw a specific exception when it cannot find the corresponding consumer, instead of a generic CamelExchangeException.
CAMEL-6110	camel-xmlbeans: Improve the test coverage
CAMEL-6116	Populate all optional parameters from DeliverSm (if it is DeliveryReceipt)
CAMEL-6117	Allow empty service_type and system_type
CAMEL-6121	While creation of submit_sm from Exchange no optional params are being set to submit_sm .
CAMEL-6145	JXPath language - Allow to configure lenient option
CAMEL-6166	camel-jms - Allow to configure jmsKeyFormatStrategy directly on component level
CAMEL-6177	Camel-AWS should support any implementation of AmazonXXX (not only AmazonXXXClient)
CAMEL-6178	Camel Flatpack should respect the ignoreExtraColumns and allowShortLines options for delimited files
CAMEL-6205	Add option to disable file system sync on File Producer
CAMEL-6217	Camel-test-blueprint supports to create bundle context per class
CAMEL-6260	IllegalAccessException when setup statement in the camel-jdbc component
CAMEL-6264	Camel 2.10 performance regression with added statistics in BaseTypeConverterRegistry

Improvement	Description
CAMEL-6265	direct-vm component - The processor should support async routing engine
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-6308	ScheduledPollConsumer.startScheduler() access type should be "public", not "protected"
CAMEL-6310	BlueprintCamelContext start() method should setup the TCCL
CAMEL-6340	Improve Groovy performance
CAMEL-6361	Validations exception should include line/column
CAMEL-6370	Populate all optional parameter for SubmitSm, SubmitMulti and DataSm to SMSC
CAMEL-6372	camel-krati - KratiConsumer should support maxMessagesPerPoll
CAMEL-6397	camel-restlet - Allow to configure reuseAddress option
CAMEL-6402	HTTP4 - Set the content length for requests, if known
MR-671 http://fusesource.com/issues/browse/MR-671][CAMEL-6017	Camel-Jetty Proxy is configured at JVM level using system properties
MR-700 http://fusesource.com/issues/browse/MR-700][CAMEL-6140	adding getTaskQueueRemainingCapacity() on <code>org.apache.camel.api.management.mbean.ManagedThreadPoolMBean</code>
MR-713 http://fusesource.com/issues/browse/MR-713][CAMEL-6090	Backport streaming of remote content for ftp component
MR-719 http://fusesource.com/issues/browse/MR-719][CAMEL-6351	Blueprint does not support prop namespace
MR-721 http://fusesource.com/issues/browse/MR-721][CAMEL-6395	Camel Simple Expression Language does not like a dot '.' in the parameter name
New Feature	Description
CAMEL-5896	camel-netty - Allow to configure netty options in uri using prefix
CAMEL-5901	camel-netty - Allow to turn netty producer pool on or off
CAMEL-5979	Camel-Quickfix dynamic SenderSubId/TargetSubId issue

New Feature	Description
CAMEL-6054	camel-hazelcast - Manage transactions with SEDA Consumer and improve the mapstore lifecycle
CAMEL-6216	Support user metadata on files stored in S3
MR-690 http://fusesource.com/issues/browse/MR-690 CAMEL-6053	overriding blueprint placeholders when using CamelBlueprintTestSupport/pojosr framework
Task	Description
CAMEL-5935	clean up the camel schema
CAMEL-5983	Avoid the negative-tests to behave as false-positive
CAMEL-5998	Avoid using deprecated AbstractJUnit38SpringContextTests but use junit 4 test class instead
CAMEL-6066	camel-atom and camel-rss - Issue in karaf
ENTESB-564	Camel - Use OSGi 4.3.1 which is compatible with Java 7
ENTESB-634	camel-msv - Backport the pom.xml changes from ASF to Fuse Camel 2.10 to fix assembly issue on RHEL
Test	Description
CAMEL-5792	Validator component - Error loading resource on windows

Web servicees (Apache CXF)

Table 8.9 on page 146 shows what is new in Apache CXF, June 19, 2013.

Table 8.9. Apache CXF Issues in Version 7.1.1

Bug	Description
CXF-4629	Security issue with GET methods: WSS4JInInterceptor always allows HTTP Get requests from browser
CXF-4776	UsernameTokenValidator do not validate that password is not provided.
ENTESB-520	java.lang.ClassCastException: sun.reflect.generics.reflectiveObjects.TypeVariableImpl cannot be cast to java.lang.Class
ENTESB-586	ensure the context class loader is set correctly
ENTESB-705	Merge SMX4-1303 to Fuse ESB echcache

Bug	Description
SF-434 http://fusesource.com/issues/browse/SF-434 [CXF-4864]	Problem with WS-RM InOrder Assurance when using a multi-threaded client
SF-437 http://fusesource.com/issues/browse/SF-437 [CXF-4990]	W3CDOMStreamWriter in CXF doesn't handle custom namespaces added by soap.env.ns.map properly this has indirect impact in camel routes.
SMX4-1303	ehcache bundles have DynamicImport-Packages instead DynamicImport-Package
Improvement	Description
CXF-4646	Use AlgorithmSuite functionality in WSS4J 1.6.8
CXF-4731	add dependency='true' for stax-api bundle in cxf features.xml
New Feature	Description
CXF-4791	Passing arguments to JAXB compiler from WADL2Java
Task	Description
SF-431	update to javax.mail 1.4.5
SF-432	Use Fuse specs

Container (Apache Karaf)

[Table 8.10 on page 147](#) shows what is new in Apache Karaf, June 19, 2013.

Table 8.10. Apache Karaf Issues in Version 7.1.1

Bug	Description
ENTESB-517	Deploying war throws java.lang.IllegalArgumentException: bundle context should be set before refreshing the application context
ENTESB-644	ActiveMQ 5.4.2 artifacts in full assembly
ENTESB-647	Exception with tx decorated bean as ref argument of factory method
ENTESB-698	javax.activation package is enabled in Fuse ESB 7.1 which causes problems with Camel routes working with attachment
ENTESB-707	typo in etc/system.properties

Bug	Description
ENTESB-731	karaf-2.3.0.fuse-7-1-x-stable-platform has one test failure: EncryptablePropertyPlaceholderTest.testPlaceholder
KARAF-2117	LDAP login module is broken
KARAF-2154	Entering an empty command removes previous command in history
Improvement	Description
ENTESB-529	endorse stax-api spec jar
ENTESB-539	remove geronimo-servlet_2.5 bundle from servicemix-http feature
KARAF-2291	make rmiServerHost configurable
KARAF-2344	ensure LDAPLoginModule can retrieve multiple roles assigned to a specific user
New Feature	Description
ENTESB-506	Add a pojoser unit test to validate that we can use OSGI Config Admin with value encrypted (JAAS - Jasypt)
KARAF-2050	Ability to configure ssh session idle timeout - currently hardcoded as 5 minutes
Test	Description
KARAF-2087	add a testcase to cover the scenario that the AdminService can always load latest instance status which changed by external process

Container (Apache Felix)

[Table 8.11 on page 148](#) shows what is new in Apache Felix, June 19, 2013.

Table 8.11. Apache Felix Issues in Version 7.1.1

Bug	Description
FELIX-3632	[Framework] Parsing of delimited strings in manifest parser collapses all consecutive escapes
FELIX-3670	PackageAdmin.isBundleType throws NPE for uninstalled bundle
FELIX-3743	Potential endless loop setting the active framework startlevel

Bug	Description
FELIX-3753	Felix crashes when embedded within Felix
FELIX-3761	When a bundle registers a service, the bundle lock is obtained without any real purpose
FELIX-3803	Bundle#getResource always try to resolve the bundle
FELIX-3821	FileInstall does not support correctly ConfigAdmin being shut down
FELIX-3822	FileInstall should unregister its services
FELIX-3823	ConfigAdmin should explicitly unregister services
FELIX-3824	Possible InvalidStateException thrown while unregistering bundle services
Improvement	Description
FELIX-3807	Refreshing bundles should first grab all the bundle locks to avoid concurrent modifications of those bundles
Task	Description
FELIX-3808	Upgrade ConfigAdmin to pax-exam 2

