Red Hat JBoss A-MQ 6.1

Release Notes

What's new in Red Hat JBoss A-MQ

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What's new in Red Hat JBoss A-MQ

JBoss A-MQ Docs Team
Content Services
fuse-docs-support@redhat.com

Legal Notice

Abstract

These notes provide an overview of the changes between each release of Red Hat JBoss A-MQ.

Table of Contents

CHAPTER 1. WHAT'S NEW

Abstract

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

NEW FEATURES

The following list describes the main features in version 6.1:

- Full support for AMQP 1.0. Out-of-the-box wire-level compatibility across connections.
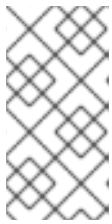
  > **NOTE**
  >
  > AMQP 1.0 is *not* a supported protocol for the JBoss A-MQ JCA connector (Apache ActiveMQ resource adapter, which is the plug-in for integrating JBoss A-MQ with the JBoss Enterprise Application Platform container). OpenWire is the only wire protocol supported by the JCA connector.

- Broker configuration modification no longer requires restarting the services.

- Improved high availability (HA). Embedded message store for shared-nothing HA configuration.

- Certification of the JBoss A-MQ resource adapater with JBoss EAP 6.

- Support for the MQTT 3.1.1 draft specification.

- Extensive connectors library. More than 200 out-of-the-box-connectors with Apache Camel and new connectors for Salesforce and SAP.

- New Fuse Management Console. Improved out-of-the-box management console based on the hawt.io Web console. You can now start, stop, measure and trace Camel routes on-premise or in the cloud.

TECHNICAL PREVIEW FEATURES

The following features are provided on a technical preview basis and are not fully supported in version 6.1:

- Insight metrics for Kibana and ElasticSearch profiles

- Process manager (for more details see Fabric8 Process Containers)

- Fabric partition (for more details see Fabric8 Partitions)

- Gateway

- Replicated LevelDB store

- Java driver for LevelDB store on non-Linux or OS-X operating systems

- JMS Qpid client

- Hadoop integration

- Fabric8 Maven plug-in

- Fabric8 Git configuration (for more details see Fabric8 Git)

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

DEPRECATED FEATURES

The following features are deprecated from version 6.1:

- Fabric Application Bundle (FAB). You can package modules directly in OSGi bundles.

- Java Business Integration (JBI). You can configure JBI containers to use Camel routes.

- Normalized Message Route (NMR). You can configure bundle-to-bundle communication to use direct-vm Camel routes, or JMS message transport.

- ActiveMQ Web console. You can use the `ActiveMQ` tab on the Fuse Management Console instead.

CHAPTER 2. KNOWN ISSUES

The following list describes known issues in version 6.1:

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

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

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

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

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

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

To secure JBoss A-MQ against the POODLE SSLv3 vulnerability, you must disable SSLv3 in some JBoss A-MQ components

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

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

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

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

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

The `ls` command might cause an exception

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

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

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

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

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

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

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

To install the bundles:

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

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

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

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

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

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

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

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

The following error message might appear:

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

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

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

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

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

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

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

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

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

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

Cannot apply patches with alphabetic characters [ENTESB-1352]

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

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

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

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

Workaround: Delete the `pax-url-aether-1.5.2.jar` file from the `lib/` folder.

KAR files not supported in a Fabric environment

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

[ENTESB-3488] Fuse Fabric mq-create requires keytool to be installed

The `fabric:mq-create` command requires that the Java `keytool` command-line utility is provided on your PATH. If necessary, you can work around this requirement by specifying the `--no-ssl` option (which disables support for the SSL/TLS protocol).

[*ENTMQ-686*] Fabric Discovery protocol is not backward compatible for mq clients

JBoss A-MQ 6.0 clients that use a Fabric discovery broker URL—for example, a URL of the form `discovery:fabric:clusterID`—cannot connect to JBoss A-MQ 6.1 brokers deployed in a Fabric. There are two alternative workarounds for this issue:

- Upgrade the 6.0 clients to user version 6.1, or

- Interpose an MQ Gateway (from JBoss A-MQ 6.1) between the clients and the brokers, and configure the clients to connect to the brokers through the MQ Gateway.

CHAPTER 3. RESOLVED ISSUES

3.1. MESSAGING

Table 3.1, "Messaging Issues Resolved in 6.1" lists the issues resolved in version 6.1.

Table 3.1. Messaging Issues Resolved in 6.1

Issue Number	Description
ENTMQ-94	We have both activemq and mq webconsole listed in the features
ENTMQ-111	standalone webconsole error "java.lang.IllegalStateException: Broker is not yet started" when master instance is restarted in master/slave pair.
ENTMQ-169	Pending Queue Counter is incorrect when using durable topics
ENTMQ-173	Broker may be unable to recover durable topic subscription from the kahadb journal
ENTMQ-224	ER1: JMS TCKs violations: if connection is reused in EJB, second usage is out of transaction
ENTMQ-238	jdbcPersistenceAdapter does not use lockCreateStatement value
ENTMQ-242	Web Demo doesn't work
ENTMQ-243	External broker clients using discovery protocol have osgi depdencies.
ENTMQ-250	CR1: solaris 10 and aix 7.1 startup problem
ENTMQ-261	The Resource Adapter ignores the JMSXGroupID when dispatching to MDBs
ENTMQ-273	FMQNetworksFabricDiscovery.html in documentation incorrectly documents the Discovery URI as discovery://(fabric://nwBrokers)
ENTMQ-274	Nullpointer when using TimeStampingBrokerPlugin & IndividualDeadLetterStrategy
ENTMQ-277	Client connections are not being rebalanced when a new broker joins the network
ENTMQ-280	Fix and merge https://issues.apache.org/jira/browse/AMQ-4292 (persisted redelivery flag)
ENTMQ-282	Un-browsable messages in broker mesh with large volume of data
ENTMQ-283	org.apache.activemq.tooling:activemq-maven-plugin:5.8.0 - The parameters 'project' for goal org.apache.activemq.tooling:activemq-maven-plugin:5.8.0.redhat-60023:run are missing or invalid

Issue Number	Description
ENTMQ-285	consumer.close() on transacted session does not release prefetched messages
ENTMQ-286	Updates to the configuring and running guide
ENTMQ-288	second network connector in list not picking up configured network.userName
ENTMQ-289	mq-web-console profile in fabric
ENTMQ-290	mkahadb with perDestination="true" lazily loads kahadb journal files after startup
ENTMQ-293	Problems with SSL & Java 7
ENTMQ-294	Security guide updates required
ENTMQ-296	ActiveMQResourceAdapter.getXARessources() broken
ENTMQ-299	Make web console secured by default when it is deployed (hardening fix for CVE-2013-3060)
ENTMQ-304	extras/apache-activemq-...-bin.zip is missing libraries for LevelDB persistence adapter
ENTMQ-309	Deadlock when message expires on a temporary destination and queue is going away
ENTMQ-322	Messages stuck in queue with redelivered=true
ENTMQ-329	Broker recovery very slow when using jdbc persistence adapter and vmcursor
ENTMQ-331	jdbcPersistenceAdapter does not auto select the appropriate Database JDBC adapter
ENTMQ-332	jdbcPersistenceAdapter: tablePrefix is ignored when the jdbcPersistenceAdapter.adapter attribute is set
ENTMQ-334	Network consumers remaining when remote consumers are disconnected
ENTMQ-336	Fuse bundles feature is missing in the distro
ENTMQ-337	Improve DestinationFilter to allow any filter to unsubscribe its wrapped destination from a durable subscription
ENTMQ-338	Persistent message lost when java.io.InterruptedIOException happens with manual invervention
ENTMQ-339	JDBCIOExceptionHandler does not restart TransportConnector when JMX is enabled on broker - java.io.IOException: Transport Connector could not be registered in JMX

Issue Number	Description
ENTMQ-340	Negative JMX QueueSize attribute in due to purging a queue
ENTMQ-341	Persistant message moved from ActiveMQ.DLQ to another queue can be lost
ENTMQ-342	ServerSession of JCA resource adapter may close down in case of using failover transport preventing any further messages to be dispatched.
ENTMQ-346	Master Slave not working well with mKahaDB
ENTMQ-349	Can not remove default JMX port 1099 if the <managementContext connectorPort="2001"> section is located after <networkConnectors> section in activemq.xml file
ENTMQ-357	When using store cursor with oracle persistent store, the broker is locking up when trying to receive messages
ENTMQ-358	Missing library xpp, xml pull parser
ENTMQ-360	QueueBrowser hangs when browsing large queues
ENTMQ-361	The lease-database-locker does not work properly if master/slave broker servers are out of sync with Database server
ENTMQ-363	Some jars missing in apache-activemq-5.8.0.redhat-60024
ENTMQ-366	JDBCPersistence DB stopped during message send; JMSException is sent back to client rather than shutting down connection
ENTMQ-368	JDBCPersistence DB stopped during message send with JDBCIOExceptionHandler configured; IOException/SQLException is sent back (sometimes) to the client before the transport connector is shutdown
ENTMQ-370	Consume message in transaction not working with AMQP transport
ENTMQ-372	Background and the text on the connection information screen for the amq web console in a-mq are both black
ENTMQ-375	In some case, JMS browse return duplicate messages in infinite loop
ENTMQ-377	java.lang.LinkageError when trying to start child container
ENTMQ-378	Failover with client ack mode consumer can loose a message auto acked as a duplicate
ENTMQ-379	JMS TCKs violation REGRESSION: InvalidDestinationException should be thrown on Session.unsubscribe("foo")

Issue Number	Description
ENTMQ-380	unsubscribed durable subscriptions come back after broker restarted
ENTMQ-382	mq-discover; mq broker instances disappear from cluster-list when zookeeper session is expired and new session established - it can result in two active broker in master/slave setup.
ENTMQ-386	activemq-osgi pegging CPU(s)
ENTMQ-387	TotalMessageCount not decremented if the entire queue is removed
ENTMQ-389	JBoss A-MQ 6.0.0 is affected by CVE-2013-4152
ENTMQ-394	JMSClientTest.testTXConsumerAndLargeNumberOfMessages fails intermittently
ENTMQ-397	populateJMSXUserID is not setting the JMSXUserID property on the JMS message
ENTMQ-400	Message marshalledproperties corrupt when using composite destinations and message groups.
ENTMQ-402	Fuse MQ: scheduled task used by LeaserLocker to renew lease is stopped when the new org.apache.activemq.broker.SuppressReplyException is thrown, allowing two brokers to become master.
ENTMQ-407	Unable to add camel routes to activemq running in a karaf container
ENTMQ-410	ActiveMQ creates & initializes ACTIVEMQ_LOCK in wrong database when using separate lock data source
ENTMQ-411	[org.apache.activemq.ActiveMQConnection] (ActiveMQ Transport: tcp://localhost/127.0.0.1:61616@51487) dispatch paused, waiting for outstanding dispatch interruption processing (1) to complete..
ENTMQ-412	Enable PooledConnectionFactory to retain the DestinationName that has been passed in.
ENTMQ-414	Linkage error when restarting the container
ENTMQ-420	Upgrade qpid client to 0.24
ENTMQ-423	using LeaseDatabaseLocker; broker periodically fails to restart after losing and reacquiring the lease, fails with exception - javax.management.InstanceAlreadyExistsException: org.apache.activemq:type=Broker,brokerName=jdbcBroker,service=Health
ENTMQ-424	runtime config url not available from pid factory - broker context is null
ENTMQ-429	Resolve spring schema locally in karaf - runtime configuration plugin

Issue Number	Description
ENTMQ-432	Can't create replicated broker in a fabric connected A-MQ disto. Get: java.lang.NoClassDefFoundError: org/linkedin/zookeeper/client/AbstractZKClient
ENTMQ-434	Fabric Master node not starting up on fresh deployment
ENTMQ-435	ZooKeeprMultiGroup for MQ is not closed when the mq-fabric bundle gets stopped.
ENTMQ-436	'IOException: invalid record position' error shows up on a leveldb slave
ENTMQ-437	NullPointerException when using replicated leveldb
ENTMQ-439	Refine recent browseQueue enhancements (AMQ-4181)
ENTMQ-443	Broker doesn't start after creating a Fabric inside jboss-fuse-full
ENTMQ-444	Stuck messages in a network of brokers that don't get dispatched to consumer
ENTMQ-445	java.lang.OutOfMemoryError: GC overhead limit exceeded when runtimeConfigurationPlugin is added to activemq.xml with namespace prefix
ENTMQ-446	Sometimes broker doesn't start after modifying activemq.xml when <runtimeConfigurationPlugin checkPeriod="1000"/> added to plugins
ENTMQ-447	Improve checksum for corrupted journal files
ENTMQ-451	activemq:dstat command can throw exception
ENTMQ-453	lease-database-locker does not use the configured tablePrefix in UPDATE statement
ENTMQ-454	After adding simpleAuthenticationPlugin to activemq.xml the changes are not applied by watcher
ENTMQ-455	Modification of virtual destinations is not applied correctly by watcher
ENTMQ-457	KahaDB index corrupted but no errors are reported
ENTMQ-458	Watcher doesn't work for Destination policy gcInactiveDestinations
ENTMQ-459	MQTT+NIO fails when 1000 clients publish 1 msg/sec
ENTMQ-461	Bug in the WebConsole RemoteJMX connectivity
ENTMQ-462	NPE when adding authorizationPlugin when using watcher
ENTMQ-464	FuseByExample WebsocketExample JBoss A-MQ section fails to install

Issue Number	Description
ENTMQ-465	FuseByExample external-mq-fabric-client depends on FMC
ENTMQ-466	AmqpErrorException occurs with multiple concurrent topic consumers
ENTMQ-467	vm transport does not detect connection loss and is unable to reconnect
ENTMQ-468	java.lang.OutOfMemoryError: Java heap space Exception when sending big amount(1000+) of 1M non persistent messages to broker
ENTMQ-471	Session.send() should return JMSException
ENTMQ-472	Client Producer should return connection error
ENTMQ-473	Master doesn't shutdown when leveldb quorum lost, reports the connection to the client is taking a long time to shutdown
ENTMQ-475	Topic DurableConsumer do not consume messages after DB connection is restored by the Broker.
ENTMQ-476	consumer.receive hangs when receiving message of size 1Mb with amqp
ENTMQ-477	Method Connection.close() hangs after jmx broker restart with amqp
ENTMQ-479	Session.createConsumer(destination) hangs after jmx broker restart with amqp
ENTMQ-483	Fails to receive 2000 messages from queue with consumer.receive(5000) with amqp
ENTMQ-484	Selectors don't work correctly for amqp with transport.transformer=raw
ENTMQ-485	CMS package - failing integration tests
ENTMQ-486	Durable subscriber doesn't recieve messages with levelDb running on amqp protocol
ENTMQ-488	JDBCPersistenceAdapter: queue messages trapped in store when DB connection is lost and restored
ENTMQ-489	activemqweb console is not able to display JMS Message Header values containing XML/HTML tag snippet
ENTMQ-491	Durable subscriber doesn't recieve messages on amqp with client qpid-amqp-1-0-client-jms version 0.26-SNAPSHOT and 0.28-SNAPSHOT
ENTMQ-493	Method session.createTopic(topicName) of qpid-amqp-1-0-client-jms creates queue instead of topic, unless its name is not prefixed with 'topic://'

Issue Number	Description
ENTMQ-496	JDBCPersistenceAdapter; When duplicate message occur from network producer, message is stuck in DB even when enableAudit="false"
ENTMQ-499	[Doc] Update docs on making activemq-jaas work well with karaf (or any other) authentication module
ENTMQ-501	" java.lang.ClassCastException: org.apache.activemq.command.ExceptionResponse cannot be cast to org.apache.activemq.command.IntegerResponse, attempting to automatically reconnect"
ENTMQ-505	Reduce the reliance on fsync when writing to disk (AMQ-4947)
ENTMQ-506	Parameter forwardOnly is not applied by watcher in virtual destinations
ENTMQ-507	sending big amount(1000+) of 1M non persistent messages to broker raises following exception
ENTMQ-508	No message received from topic
ENTMQ-509	javax.transaction.RollbackException: ARJUNA016053: Could not commit transaction - when re-using UserTransaction
ENTMQ-510	Not delivered messages after clean shutdown of master
ENTMQ-511	Cannot start JBoss A-MQ server on Solaris
ENTMQ-513	activemq-camel should explicitly Import-Package org.apache.activemq.pool
ENTMQ-515	JBoss A-MQ 6.1.0 is affected by CVE-2013-6429
ENTMQ-517	very large number of org.apache.activemq.ActiveMQSession$2 held and never released by ActiveMQConnection[ID:XXX] Scheduler thread.
ENTMQ-518	Sockets in org.apache.activemq.transport.tcp.TcpTransportServer#socketQueue are not handled
ENTMQ-520	Both test cases in LDAPLoginModuleTest are failing
ENTMQ-530	ttl set on message is not converted to an expiry time stamp
ENTMQ-534	disable jmx broker restart by default in a-mq
ENTMQ-536	amqp - slow consume of large messages
ENTMQ-539	Can't start broker after migration from 6.0

Issue Number	Description
ENTMQ-541	Leveldb Startup error in standalone distros
ENTMQ-542	Broker with LevelDB (JNI driver) Could not load any of the index factory classes:leveldbjni.JniDBFactory on Windows
ENTMQ-545	Broker side redeliveryDelay does not work
ENTMQ-546	MQTT Interop test client fails against JBoss A-MQ
ENTMQ-547	EMBARGOED A-MQ 6.0 is affected by CVE-2014-0003 Camel remote code execution via XSL
ENTMQ-548	EMBARGOED A-MQ 6.0 is affected by CVE-2014-0002 Camel XML eXternal Entity (XXE) flaw in XSLT component
ENTMQ-551	Session.commit() hangs when amqp+nio is used
ENTMQ-555	A-MQ 6.0 is affected by CVE-2013-7285 XStream RCE due to insecure XML deserialization
ENTMQ-562	Incorrect feature definition: mq-fabric-camel/6.1.0.redhat-SNAPSHOT
ENTMQ-563	A-MQ 6.0 is affected by CVE-2014-0050 apache-commons-fileupload: denial of service due to too-small buffer size used bt MultipartStream
ENTMQ-566	mq-default broker waits to become a master when it restarts from a configuration change
ENTMQ-568	FilePendingMessageCursor cannot be cast to org.apache.activemq.broker.region.cursors.StoreDurableSubscriberCursor
ENTMQ-575	EMBARGOED A-MQ 6.0 is affected by CVE-2014-0085 Apache Zookeeper: admin user cleartext password appears in logging
ENTMQ-578	session.createConsumer(queue) fails after sending message of size 1 Mb for amqp+nio
ENTMQ-585	A-MQ 6.0 is affected by CVE-2014-1904 cross-site scripting flaw when using Spring MVC
ENTMQ-592	Error installing boot feature "patch": feature not found
ENTMQ-593	LevelDB sync=true is not being honored.
ENTMQ-609	session = conn.createSession(false,Session.AUTO_ACKNOWLEDGE); hangs for amqp, and amqp+nio
AMQ-1063	Journaled JDBC checkpoint fails with java.io.IOException: Already started.

Issue Number	Description
AMQ-2505	Problem with servicing broker messages when client hostName contains "language specific" characters (org.apache.activemq.util.IdGenerator problem)
AMQ-2536	XPath selectors return false if xalan is not on the classpath
AMQ-2938	ActiveMQ Console requires Jasypt bundle which is not part of the ActiveMQ features
AMQ-2942	Can't configure an inactivity monitor for https transport
AMQ-2960	PooledConnectionFactoryBean returns null in OSGi env sometimes
AMQ-3101	Issues in password encryption
AMQ-3303	Standalone Webconsole crashes when accessing master-slave failover activeMQ
AMQ-3350	amq.js initHandler() method swallows first message received
AMQ-3447	When MessageListenerServlet is running under servlet3, the continuation is not timing out.
AMQ-3560	Destinations do not implement javax.resource.Referenceable and will not be registerable in JNDI by some compliant JCA containers.
AMQ-3580	Documentation on integration with spring contains misleading part regarding embedded broker
AMQ-3725	Kahadb error during SAN failover delayed write - Allow kahaDB to recover in a similar manner as the JDBC store using the IOExceptionHandler
AMQ-3776	synchronization error in MessageListenerServlet.getAjaxWebClient
AMQ-3777	Incorrect variable name in bin/activemq
AMQ-3922	HSQLDB support is broken as wrong data type is used in HsqldbJDBCAdapter.java
AMQ-4073	Cannot shut down broker under certain conditions with schedule delivery and producer flow control
AMQ-4092	ConcurrentModificationException when using message groups
AMQ-4212	Broker may be unable to recover durable topic subscription from the kahadb journal
AMQ-4277	activemq-web - REST GET 204
AMQ-4325	camel doen't honor credentials set on activemqcomponent bean via spring

Issue Number	Description
AMQ-4343	activemq-web-console can't be installed on Karaf 2.2.x
AMQ-4356	unsubcribes DurableSuscriber does not work well with Virtual Topics
AMQ-4361	Deadlock during close while publishing to flow-controlled queue
AMQ-4371	RSS and ATOM feeds doesn't work in web-console
AMQ-4372	WebConsole throw Java Heap Space when browse a queue with more than 100 elements
AMQ-4376	JoramJmsTest QueueBrowserTest.testSenderBrowser fails intermittently.
AMQ-4413	Persistent message loss when JMS durable subscriber reconnects regardless of message store impl.
AMQ-4428	Don't swallow errors in IntrospectionSupport.setProperty
AMQ-4435	ActiveMQConnectionFatory should populate "consumerFailoverRedeliveryWaitPeriod"
AMQ-4437	JUnit deprecation warnings
AMQ-4441	Race condition in PooledConnectionFactory.createConnection
AMQ-4461	Priority backup with mulitple brokers
AMQ-4463	org.apache.activemq.bugs.AMQ4368Test.testENTMQ220 fails intermittently
AMQ-4464	NonBlocking redelivery redelivers messages in reverse order.
AMQ-4467	Memory usage percent can be exceeded much if PFC is disabled
AMQ-4468	TimeStampPlugin doesn't work with Stomp
AMQ-4469	Maximum connections control can not work in concurrent environment
AMQ-4471	Inconsistent messages with the WebSocket/Stomp Demo
AMQ-4472	consumer.close() on transacted session does not release prefetched messages
AMQ-4475	NullPointerException with IndividualDeadLetterStrategy and TimeStampBrokerPlugin
AMQ-4484	NetworkConnectors create a consumer for queue://
AMQ-4485	Skipped message dispatch with concurrent transacted sends at cursor memory limit

Issue Number	Description
AMQ-4486	ActiveMQResourceAdapter.getXARessources() broken
AMQ-4487	java.lang.OutOfMemoryError: Java heap space
AMQ-4495	Imporve cursor memory management
AMQ-4500	Changes to AMQ2832Test cause SparseAckReplayAfterStoreCleanupLevelDBStoreTest to fail
AMQ-4501	Failover priorityBackup doesn't work if client accepts updates to its list of known URIs from the broker.
AMQ-4504	Stalled pending message dispatch to composite destination consumer
AMQ-4505	Client doesn't fail over to other broker if updateClusterClientsOnRemove = true
AMQ-4507	FailoverTransport throws NullPointerException
AMQ-4512	MemoryUsage waitForSpace in inconsistent state
AMQ-4513	Deadlock can occur on dispose of TempQueue that contains expired Messages
AMQ-4516	Don't decrement topic enqueues when messages are expired
AMQ-4517	The Advisory for Messages being sent to the DLQ is sent regardless of the Message actually being DLQd
AMQ-4519	MasterLevelDBStore does not shutdown its protocol server when stopped
AMQ-4529	leveldb store NPEs when you send to a composite destination.
AMQ-4530	activemq-web unable to show StringProperties on Message
AMQ-4531	TcpTransportServer can leak FDs when maximumConnection is set and the limit exceeded
AMQ-4532	shutdown of VMTransportServer should report disposed exception to peer pending requests
AMQ-4534	When using ElectingLevelDBStore cannot delete all messages on startup
AMQ-4535	activemq configured with leveldb commit fail when accessed by PutGet f-tion from IBM Perf Harness
AMQ-4540	NetworkBridge - don't wait for ever for demandSubscription pending send responses on remove

Issue Number	Description
AMQ-4542	Broken javax.jms.Message.getObjectProperty(String)
AMQ-4544	Cant send MQTT message to AMQP endpoints
AMQ-4548	KahaDB can recover old inflight XA transactions that keep logs from being cleaned up.
AMQ-4554	NumberFormatException when parsing JMSXProducerTXID
AMQ-4555	Locking in SimpleCachedLDAPAuthorizationMap can lead to delays in Message dispatch.
AMQ-4559	Minor error in org.apache.activemq.transport.amqp.JMSClientTest
AMQ-4560	Exception from AMQP transport when dispatching Messages from the store.
AMQ-4562	SimplePriorityMessageDispatchChannel.clear() needs to reset size attribute
AMQ-4563	Persisted messages reappear after broker restart when using amqp
AMQ-4568	org.apache.activemq.transport.amqp.AmqpTransformerTest#testRawTransformation hangs
AMQ-4575	JDBCIOExceptionHandler does not restart TransportConnector when JMX is enabled on broker - java.io.IOException: Transport Connector could not be registered in JMX
AMQ-4576	MQTT BlockingConnection.receive fails when subscribing multiple topics
AMQ-4581	JDBCPersistenceAdapter can ignore statements settings depending on configuration order.
AMQ-4582	Specifying invalid ciphersuite in SSL transport causes all available ciphersuites to be enabled
AMQ-4585	MQTT BlockingConnection.receive fails when receiving pending messages after reconnect without cleaning session
AMQ-4587	AMQP to JMS transformer fails to properly map AMQP specific property types like UnsignedInteger
AMQ-4588	org.apache.activemq.util.IdGenerator calls non-configurable new ServerSocket(0);
AMQ-4589	Race condition in AjaxListener causes lost messages
AMQ-4591	CronParser bug on getNextScheduledTime to handle the once per minute case "* * * * *"
AMQ-4592	MySQL 5.1.25 change driver name

Issue Number	Description
AMQ-4595	QueueBrowser hangs when browsing large queues
AMQ-4596	AMQP: JMSSecurityExceptions are not propagated back to QPID client on authentication failures
AMQ-4598	Negative JMX QueueSize attribute in due to purging a queue
AMQ-4599	Only package the pure java LevelDB driver by default
AMQ-4604	Update QPID Client version to 0.22
AMQ-4605	AMQ2149KahaDBTest is redundant
AMQ-4606	BrokerXmlConfigStartTest fails on activemq-leveldb-replicating.xml
AMQ-4609	NetworkConnector MBean registered early, causing wrong MBean server to be started
AMQ-4610	ActiveMQ shows icon in Dock on MacOSX (with solution)
AMQ-4623	InstallService.bat, UninstallService.bat running failed on explorer(win32,64)
AMQ-4625	XPP Pull parser lib missing from AMQ distro
AMQ-4628	Improve Performance of JDBC store with large number of messages
AMQ-4629	REST MessageServlet swallowing Messages on high traffic topic
AMQ-4634	Rar losing messages when there is a XA trx timeout (jboss)
AMQ-4638	Tell broker to use only the space it thinks it has
AMQ-4640	We should run JoramJmsTests with amqp+nio
AMQ-4641	JoramJmsTest QueryBrowserTest fails when run with amqp+nio
AMQ-4643	JDBCPersistence DB stopped during message send with JDBCIOExceptionHandler configured; IOException/SQLException is sent back (sometimes) to the client before the transport connector is shutdown
AMQ-4645	The lease-database-locker does not work properly slave broker ssytem clock is behind Database server
AMQ-4648	fix script created by ./bin/activemq create to be able to pass command line args and run in the background

Issue Number	Description
AMQ-4651	Messages consumed in a TX from AMQP client are not removed from the Queue
AMQ-4655	We should run JoramJmsTests with amqp+ssl
AMQ-4656	Pending Queue Counter is incorrect when using durable topics
AMQ-4665	Failover with client ack mode consumer can loose a message auto acked as a duplicate
AMQ-4670	DurableSubDelayedUnsubscribeTest.testProcess fails intermittently
AMQ-4671	REGRESSION: InvalidDestinationException should be thrown on Session.unsubscribe that has no sub
AMQ-4672	[JMS Client] Set the SNI field on SSL connections
AMQ-4673	Application that uses activemq-camel fails deploying to GlassFish v4
AMQ-4674	ActiveMQ 5.x does not support the notion of a grace-period for heart beats as supported by the STOMP protocol
AMQ-4676	ActiveMQ not compliant with JSR-250 (@PostConstruct, @PreDestroy)
AMQ-4677	LevelDB can't move all message data logs that are no longer used
AMQ-4678	Timeout for StompLoadTest.testStompUnloadLoad is too long
AMQ-4683	Scheduler discards overdue messages on startup
AMQ-4685	LDAPLoginModule throws InvalidNameException when resolving LDAP aliases
AMQ-4686	Message browsing denied for stomp protocol 1.2
AMQ-4695	Cannot connect as Anonymous over MQTT TransportConnector
AMQ-4696	Durable Subscriptions are not created properly when using AMQP
AMQ-4702	Error resolving org.jvnet.jaxb2_commons packages
AMQ-4704	Stomp unit tests fail
AMQ-4705	Add keep alive support to shared file locker
AMQ-4711	totalMessageCount stat is not properly updated when destination is removed
AMQ-4712	MQTT unit tests fail

Issue Number	Description
AMQ-4713	org.apache.activemq.transport.amqp.JMSClientTest.testTXConsumerAndLargeNumberOf Messages fails
AMQ-4714	If multiple MessageInterceptors are registered, a stack overflow can occur
AMQ-4717	populateJMSXUserID is not setting the JMSXUserID property on the JMS message in JMX
AMQ-4719	Enable "Link Stealing" as an option on a Connector
AMQ-4725	FailoverUriTest hangs
AMQ-4726	Text information of ant producer durable option is not correct
AMQ-4729	mKahaDB master slave needs lock when filtered adapter locks are created on the fly
AMQ-4731	TempQueueMemoryTest started failing recently.
AMQ-4740	heart-beat is disabled when connecting to web socket
AMQ-4741	Qpid producer.send with sync_publish=true set against activemq blocks and doesn't return
AMQ-4744	Support using LevelDB as a nested store in mKahaDB
AMQ-4746	Applet ClassLoader Problems
AMQ-4747	WARN in hawt.io console
AMQ-4748	Default configuration raises an exception at shutdown
AMQ-4753	amqp+nio+ssl: infinite loop during inital handshake with SSL + client certs
AMQ-4769	Connection.close() throws exception if already closed.
AMQ-4785	Failover maxReconnectAttempts=0 incorrectly calls org.apache.activemq.transport.TransportListener#transportInterupted
AMQ-4788	Add support for allowing the broker to partition client client load across a broker cluster using a partitioning config
AMQ-4791	[org.apache.activemq.ActiveMQConnection] dispatch paused, waiting for outstanding dispatch interruption processing (1) to complete..
AMQ-4798	Destination limit for advisory topic very high after recent commit

Issue Number	Description
AMQ-4813	webconsole - Viewing message details when message ID contains a plus results in " No message could be found for ID {messageID}"
AMQ-4820	runtime config - namespace prefix causes npe on config load
AMQ-4823	NetworkConnector not registered in JMX when created from Broker View
AMQ-4829	activemq:dstat command can throw error for topic subscriptions views
AMQ-4832	Broker limits store space, not taking into account what it's already using
AMQ-4837	LevelDB corrupted when in a replication cluster
AMQ-4840	Invalid STOMP frame sent on websocket connections with heartbeats.
AMQ-4841	lease-database-locker does not use the configured tablePrefix in UPDATE statement
AMQ-4853	Advisory support leads to excessive CPU usage
AMQ-4854	JmsRollbackRedeliveryTest.testRedeliveryWithPrefetch1 fails intermittently
AMQ-4855	Typos in SubscriptionInfo
AMQ-4857	WSServlet.doWebSocketConnect throws NPE if called with null protocol
AMQ-4869	Wrong JMX object name created in RemoteJMXBrokerFacade
AMQ-4874	DurableSubscriptionOfflineTest.testOrderOnActivateDeactivate fails on CI boxes
AMQ-4876	SslContextNBrokerServiceTest fails intermittently on CI boxes
AMQ-4877	QueueMbeanRestartTest fails intermittently
AMQ-4882	LevelDB can get to a corrupt state when using XA transactions
AMQ-4884	Wildcard matches do not match
AMQ-4886	AMQ2149LevelDBTest hangs or fails frequently
AMQ-4887	ActiveMQBytesMessage will lost content if message's property was set before copy
AMQ-4889	ProxyConnector memory usage skyrockets when several ssl handshakes fails
AMQ-4892	MQTT clients disconnecting due to socket error do not publish the configured last will and testament message.

Issue Number	Description
AMQ-4893	UTF8Buffer should be a valid object for setObjectProperty
AMQ-4896	MQTT does not properly restore durable subs with the Paho client.
AMQ-4897	Race condition in failover transport
AMQ-4899	Multiple consumers of the same virtual topic queue cannot have different message selectors
AMQ-4904	jdbc ioexception handler can restart transports in error after lease expriy
AMQ-4905	runtime config - embed spring beans schema to avoid trip to the internet in osgi land
AMQ-4906	advisory producerCount = 0 is not received on temporary queue
AMQ-4907	kahadb - do some sanity check on the index when checkForCorruptJournalFiles
AMQ-4910	Windows batch script doesn't like spaces in installation path
AMQ-4914	AMQP consumer hangs when receiving large messages
AMQ-4917	LevelDB store can fail when using durable subs
AMQ-4920	AmqpErrorException occurs with multiple concurrent amqp topic consumers
AMQ-4923	Replicated LevelDB: Loss of broker Quorum fails to fully stop the master
AMQ-4924	Duplicate messages are left in the persistence store
AMQ-4927	clients can not receive mqtt retained message
AMQ-4930	java.lang.OutOfMemoryError: Java heap space Exception when sending big amount(1000+) of 1M non persistent messages to broker
AMQ-4934	JDBCPersistenceAdapter: queue messages trapped in store when DB connection is lost and restored
AMQ-4938	Queue Messages lost after read timeout on REST API.
AMQ-4950	" java.lang.ClassCastException: org.apache.activemq.command.ExceptionResponse cannot be cast to org.apache.activemq.command.IntegerResponse, attempting to automatically reconnect"
AMQ-4952	When duplicate message occur from network producer, messages blocked by cursor audit are blocked till restart

Issue Number	Description
AMQ-4958	Ignored InterruptedException in IdGenerator
AMQ-4962	Connections not closing on AMQP connector when client closes its side.
AMQ-4967	activemq-camel should explicitly Import-Package org.apache.activemq.pool
AMQ-4970	Deletion of a queue inaffective across broker restart
AMQ-4972	FailoverConsumerTest.testPublisherFailsOver is failing
AMQ-4973	UnreliableUdpTransportTest and MulticastTransportTest have test failures
AMQ-4974	Remove NetworkConnectionsCleanedupTest?
AMQ-4975	DbRestartJDBCQueueMasterSlaveLeaseQuiesceTest.testSendReceive fails intermittently
AMQ-4976	Remove hawt.io console from official distro
AMQ-4977	Memory leak in ConnectionStateTracker when browsing non-empty queues
AMQ-4978	JoramJmsNioTest hangs intermittently
AMQ-4980	MessageGroupLateArrivalsTest.testConsumerLateToBigPartyGetsNewGroup fails intermittently
AMQ-4988	Possible case of curroption in Scheduler store
AMQ-4991	JmsSendReceiveTwoConnectionsWithSenderUsingPoolTest.testSendReceive fails with NPE in PooledProducer
AMQ-4994	Web Console - java.lang.OutOfMemoryError: Java heap space - while browsing deep queues
AMQ-4995	Runtime Configuration Plugin - reapply destination interceptor after reload
AMQ-4998	Old Web Admin console does not manage - new parameter messageTTL consumerTTL connections.jsp and connections Panel display error messages
AMQ-5001	AbortSlowAckConsumer0Test has multiple test failures
AMQ-5002	AMQP: If a proton client only sets the ttl, and not the message timestamp, ActiveMQ does not handle the expiration correctly
AMQ-5003	On overlapping Failover a session can consume large amounts of memory trying to clear consumer state.

Issue Number	Description
AMQ-5006	Upgrade surefire to the latest version
AMQ-5013	RestPersistentTest sometimes hangs on CI boxes
AMQ-5017	ActiveMQPrefetchPolicy.setAll sets inputStreamPrefetch incorrectly
AMQ-5021	org.apache.activemq.bugs.MemoryUsageBlockResumeTest sometimes hangs
AMQ-5028	Remove jetty and jsp compiler jars from web-console.war
AMQ-5029	embedded webconsole broker does not resolve activemq.data system property
AMQ-5033	webconsole url and html encoding missing
AMQ-5035	deleting durable subscriber exception
AMQ-5036	AMQ4914.testSendHugeMessage times out on slow CI boxes
AMQ-5038	RAR - Active session can delay/block endpoint deactivation on shutdown
AMQ-5041	JMSClientTest is hanging
AMQ-5042	Session.commit() hangs when amqp+nio is used
AMQ-5043	Improve MQTT spec compatibility
AMQ-5047	Maven version affects packaging
AMQ-5051	MQTTInactivityMonitor throws a NullPointerException
AMQ-5053	BrokerRedeliveryTest.testNoScheduledRedeliveryOfExpired fails intermittently
AMQ-5054	Display the number of active transactions and age of oldest transaction on a Connection's JMX info
AMQ-5058	Broker MUST respond with CONNACK with return code 0x02 for zero length client id and 0 cleansession
AMQ-5059	The first packet from client to Broker MUST be a CONNECT packet, Broker MUST disconnect when UNSUBSCRIBE is the first packet
AMQ-5062	JMSClientNioTest fails intermittently
AMQ-5065	MQTT Retained message QoS must be set to a maximum of Subscription's QoS

Issue Number	Description
AMQ-5066	Duplicate MQTT Subscription with a different QoS for the same Topic MUST remove the older Subscription
AMQ-5070	Broker should stop accepting work when trying to shut down transports
AMQ-5071	Wrong or incomplete log message in PooledTaskRunner class.
AMQ-5073	Session.commit() hangs when amqp+nio+ssl is used
AMQ-5074	MQTT paths with empty levels are not handled correctly
AMQ-5075	AMQP Transport throws unauthorized access for all error that occur during a connection attempt
AMQ-5080	RAR - missing messages on master slave failover
AMQ-5087	RedeliveryPolicy redeliveryDelay is ignored if initialRedeliveryDelay is specified
AMQ-5089	Inflight Count for topics is not correct
AMQ-5090	Improve Failover transport transaction tracking
AMQ-5092	MQTT uses duplicate packet IDs for PUBLISH messages
AMQ-5093	ampq with nio or nio+ssl fails when sending large messages
AMQ-5096	AMQP Protocol doesn't send back meaningfull errors for unauthroized access
AMQ-5099	Useless or dead code in OpenWireFormat class.
AMQ-5101	MQTT SUBACK packet MUST use return code 0x80 to report failed topic subscriptions
AMQ-5102	AMQ4914Test.testSendHugeMessage times out on CI boxes
AMQ-5104	Show non-durable Topic subscriptions on the web console
AMQ-5106	unable to build trunk from scratch due to missing dependency
AMQ-5108	MQTT subscriptions for cleansession=true MUST be non-durable
AMQ-5110	No disposition set on Discharge response for AMQP TX commit or rollback
AMQ-5112	MQTT server connections are not thread safe
AMQ-5113	JmsCronSchedulerTest fails intermittently because of race condition in test

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

3.2. CONTAINER

Table 3.2, "Container Issues Resolved in 6.1" lists the issues resolved in version 6.1.

Table 3.2. Container Issues Resolved in 6.1

Issue Number	Description
ARIES-1019	JPA weaving hook must be called before proxy weaving hook.
ARIES-1024	SingleServiceTracker fails to track services properly when using a filter
ARIES-1026	JPA Temporary classloader cannot traverse the OSGi ClassLoader Graph
ARIES-1031	BlueprintExtender unnecassarily shutting down
ARIES-1055	Allow use of custom namespaces in blueprint-noosgi
ARIES-1064	Advertise blueprint extender capability as defined in the OSGi enterprise r5 spec
ARIES-1070	Provide a correct JDBC wrapping for XA data sources
ARIES-1090	ABBA deadlock in BP container between BlueprintContainerImpl and ReferenceRecipe
ARIES-896	Deadlock with blueprint services
ARIES-958	BundleManifest.fromBundle(IFile) fails to parse OSGI headers when bundle manifest contains Name header.
ARIES-976	BlueprintContainerImpl swallowing NPE prevents error being logged
ENTESB-1072	ASMMultiBundleTest.multiBundleTest fails intermittently
ENTESB-1073	org.apache.aries.blueprint.itests.BlueprintMBeanTest.BlueprintSample fails intermittently
ENTESB-1080	org.apache.aries.blueprint.itests.QuiesceBlueprintTest.testBasicQuieseEmptyCounter fails on windows
ENTESB-1135	Aries JPA builds on Hudson fail because of large log files
ENTESB-1347	aries-transaction-1.0.1.redhat-6-1-x-stable-platform has 14 test failures on multiple platforms
ENTESB-1348	aries-blueprint-1.0.1.redhat-6-1-x-stable-checkin BlueprintContainerBTCustomizerTest.test tails
ENTESB-896	aries-blueprint-1.0.1.redhat-6-1-x-stable-checkin TestRegistrationListener.testWithAutoExportEnabled() fails
ENTESB-897	aries-jmx-1.0.1.redhat-6-1-x builds have 4 test failures
ENTESB-906	aries-jmx-1.0.1.redhat-6-1-x-stable BlueprintMBeanTest.BlueprintSample test fails

Issue Number	Description
ENTESB-1134	Felix SCR RegistrationManagerTest.testRegistrationManager fails on Windows
ENTESB-930	Warnings from Karaf webconsole
FELIX-1131	ServiceReference.isAssignableTo fails when using a factory that can not see the exported class and the bundle exporting the service does not have a direct wire to this class
FELIX-4190	The framework should not hold any lock while calling ServiceFactory#unget
FELIX-4309	SCR leaves some components in DISABLED state
FELIX-4313	Bad synchronization in scr where a lock is held while ungetting a service
FELIX-4322	[DS] Prevent activation attempts until all dependency managers are set up with trackers
FELIX-4323	[DS] ScrService.getComponents may return a null array element
FELIX-4326	Possible Invalid BundleContext exception when shutting down the extender
FELIX-4336	The use of inheritable thread locals in ThreadIO can cause problems
FELIX-4341	The Properties object does not follow the spec wrt spaces
FELIX-4342	Substitution is dependent on the order of the map
FELIX-4348	[DS] locateService calls race with component reconfiguration
FELIX-4349	Synchronization issue in ComponentRegistry
FELIX-4350	Component wrongly activated

3.3. FUSE FABRIC

Table 3.3, "Fuse Fabric Issues Resolved in 6.1" lists the issues resolved in version 6.1.

Table 3.3. Fuse Fabric Issues Resolved in 6.1

Issue Number	Description
FABRIC-16	Fabric camel endpoint cannot be reconnected to zookeeper node after an update of the bundle (session is expired)
FABRIC-26	java.lang.NoSuchMethodError: javax.xml.stream.XMLOutputFactory.newFactory()Ljavax/xml/stream/XMLOutputFactory;

Issue Number	Description
FABRIC-27	Camel route cannot retrieve reference of a DOSGI service - waiting for dependencies
FABRIC-138	Zookeeper connection loss handling
FABRIC-298	Tar command not available on Solaris
FABRIC-352	The installation path for a remote ssh container is ignored
FABRIC-363	Version create and update does not properly propagate entries in the registry.
FABRIC-365	Modifying the ensemble will not work if the version of the containers has changed.
FABRIC-371	Fabric default profile lock status change causes fabric to show locked and true as parents and these cannot be removed.
FABRIC-397	Unable to provision FAB on remote fabric container
FABRIC-398	Features Repository not able to be resolved
FABRIC-426	CR1: Branding is not propagated to child containers
FABRIC-431	Creating child container with id starting with -- due mistyped command
FABRIC-432	fabric-zookeeper-spring bundle should just exports the package of "org.fusesource.fabric.zookeeper.spring"
FABRIC-441	Unable to start remote ssh container in JBoss Fuse 6.0 unless telnet is installed
FABRIC-448	fabric:export not exporting all profiles
FABRIC-461	features:listrepositories command fails with null pointer exception on Fabric Managed container.
FABRIC-462	profile-edit command does not respect the default version.
FABRIC-466	camel-fabric - Routing to non existing fabric name discards message - should throw exception instead
FABRIC-467	Using the Java Service Wrapper with the root fabric container appears to prevent child containers from creating a log
FABRIC-474	Zookeeper session leak causing system to be unusable
FABRIC-476	container-create-ssh command hangs w/ Windows, Kerberos authentication and versions of sshd-core > 0.6

Issue Number	Description
FABRIC-477	In some edge cases profiles are getting lost
FABRIC-480	Fabric ensemble-password command mentions non-existent command ensemble-create in it's help which should be removed.
FABRIC-481	Profile delete, will only delete the profile, but will not remove it from any container it has been assigned
FABRIC-485	a-mq disto repeatedly logging ZK connection errors but is not part of a Fabric cluster.
FABRIC-486	[a-mq distro] Exceptions during 'fabric:create -p fmc'
FABRIC-487	inconsistent fabric:container-create-child behaviour
FABRIC-488	Seeing repeated 'java.lang.IllegalStateException: Committed' errors after running 'fabric:create -p fmc' in the 'a-mq'distro
FABRIC-489	Can not change the Jetty port with fabric (activemq web console displays 404)
FABRIC-490	Creating remote containers may hung forever
FABRIC-492	Fabric only installs the latest version of a feature
FABRIC-493	Fabric will hung of a long time if it tries to update core parts of itself
FABRIC-497	fabric:profile-refresh does not work as expected.
FABRIC-503	ClassCastException: sun.misc.Launcher$AppClassLoader cannot be cast to org.osgi.framework.BundleReference
FABRIC-531	Fabric cloud firewall management is broken
FABRIC-532	Provide a way to distinguish between out-of-the-box profiles and user created profiles
FABRIC-539	PaxExam based fabric tests don't write meaningful karaf.log
FABRIC-545	profile-edit --import-pid should ignore file.install.filename property
FABRIC-548	Uploading artifacts to the fabric maven proxy is broken
FABRIC-550	Fabric DOSGi is broken
FABRIC-551	Unable to provision container using a single profile when using the warref protocol

Issue Number	Description
FABRIC-552	adding a "--force" option to the start/stop container command in case mismatch between JVM lifecycle and container lifecyle
FABRIC-555	Messaging crashes VM by creating large number of threads
FABRIC-559	CreationStateListener is ignore in all container options classes.
FABRIC-561	can't start fabric-core-agent-ssh bundle due to miss OSGi service org.fusesource.fabric.api.FabricService
FABRIC-564	Webapp and Servlet registered URLs should respect resolver changes.
FABRIC-565	The Zookeeper Login Module should not be activate if fabric is not ready.
FABRIC-566	Shell is restarted after fabric:create and also installing some features
FABRIC-567	Can't create fabric on AIX7 server
FABRIC-568	profile "karaf" binds jolokia to 8080 port
FABRIC-569	Fuse Fabric silently drops DOSGi messages
FABRIC-570	Align zookeeper acls with curator
FABRIC-572	Some profiles fail to provision; eg example-camel-fabric
FABRIC-573	Fabric allows for a remote root container to be deleted even if child containers exist
FABRIC-575	fabric:profile-refresh causes NumberFormatException when connecting using a repo url that has username/password encoded.
FABRIC-576	JMX domains don't seem to be updated after a container is created
FABRIC-577	Container.isEnsembleServer() also returns true for containers that aren't running a zookeeper server
FABRIC-579	Unable to start remote child containers after the remote root container has been patched
FABRIC-580	Can't delete configuration files via the fabric API
FABRIC-581	Can't change a profile's parents
FABRIC-583	FuseMQ status is incorrectly reporting that MQ is running
FABRIC-585	NPE when importing properties into Fabric using --properties flag

Issue Number	Description
FABRIC-587	Problem using the the profile:edit command and built in fabric editor
FABRIC-588	Using fabric:ensemble-add (or ensemble-add) and removing is not always working
FABRIC-591	fabric:create command does not validate the --profile option
FABRIC-593	Provisioning a profile stalls at "Installing" state forever
FABRIC-594	Camel Crypto Jars in Fabric
FABRIC-595	Restore the separation of 'all' and 'release' profiles
FABRIC-598	Re-deployment of jboss-fuse-full leads to OOM: Permgen
FABRIC-602	Location of broker configuration not updated when creating a new profile version in Fabric
FABRIC-603	profile-display output doesn't show all of the files
FABRIC-604	SCR 1.8.0.redhat-610117 does not make its sources available
FABRIC-605	fabric:create --clean is broken
FABRIC-607	Zookeeper session leak causing system to be unusable (6.0 and 7.1 fix)
FABRIC-609	Deadlock on OpenShift while accessing git
FABRIC-610	Pax web does not start on managed containers on openshift
FABRIC-613	No space left on device 107.21.154.172
FABRIC-618	Fabric smoke tests create large nexus-maven-repository-index files in /tmp
FABRIC-626	Calls to datastore setConfigurations will delete non property file configurations
FABRIC-627	fabric:container-create-child no longer prompts for jmx credentials if there is an auth failure.
FABRIC-631	fuse-deploy job may deploy invalid artefacts
FABRIC-632	Cannot download scriptengines-jruby
FABRIC-633	fabric:create takes long time - approximately 3-4 min
FABRIC-634	getProfileFeatures() JMX API blocking indefinitely

Issue Number	Description
FABRIC-635	Build contains diverging versions of org.apache.felix.utils
FABRIC-650	GitDataStore timing issues
FABRIC-651	Remove JBoss A-MQ Fabric stuff from the default build
FABRIC-656	profile-edit command doesn't properly support deleting pids and pid keys.
FABRIC-659	Git DataStore sends more change notifications than it actually needs to.
FABRIC-693	Component activation may expect Map<String, String> but gets Map<String, ?>
FABRIC-694	Revisit ZooKeeperBootstrap handling
FABRIC-695	Git server may fail to start due to scr issues.
FABRIC-696	ZooKeeperGroup may leave behind zk entries completely breaking master election
FABRIC-697	Adding containers to enselmble second time after removing it from ensemble is broken
FABRIC-699	Http calls inside openshift get redirected to https or even to a different host
FABRIC-711	fabric:cluster-list completer is not really helpful
FABRIC-713	Cannot build fabric-openshift due to missing openshift-java-client
FABRIC-714	Fuse ESB does not build with clean repository
FABRIC-744	Can't access the git servlet
FABRIC-749	NoSuchMethodError: org.apache.felix.utils.properties.Properties.setProperty
FABRIC-751	TreeCache error when creating a container, unable to create any more containers afterwards
FABRIC-754	Can't create child container via JMX
FABRIC-755	Cannot provision child container reliably
FABRIC-767	Comments are removed from fabric property files when a feature is added to the profile
FABRIC-772	Restructure smoke tests to cover functional minimum
FABRIC-782	Newly created apps in OpenShift don't connect to the fabric

Issue Number	Description
FABRIC-785	Occasionally not all blueprints installed from profile
FABRIC-787	Logging out fuse-fabric - io.fabric8.api.scr.InvalidComponentException
FABRIC-790	Provisioning failure when using profile:xxx references
FABRIC-792	Regression on handling of missing profiles
FABRIC-793	JBoss Fuse fails to build/run on jdk6
FABRIC-794	(fabric:create -n) fabric is not exposing service URL visible in cluster-list
FABRIC-795	java.lang.ArrayIndexOutOfBoundsException in normalizePropertyName
FABRIC-802	Erratic behaviour of the management console after creation in OpenShift
FABRIC-803	Custom Repository configuration not picked up
FABRIC-804	JMX user/password entered when creating new container has no effect
FABRIC-810	Error starting container after creating it
FABRIC-811	Delete container is a bit too easy
FABRIC-814	PaxExam may run test before support bundles are installed
FABRIC-815	Build fails because of missing hawtio-git-1.2-M-redhat-319
FABRIC-816	Import with verbose output doesn't work
FABRIC-821	perfectus build doesn't deploy quickstarts builds to nexus by default
FABRIC-822	Cannot create child container repeatedly
FABRIC-823	CreateEnsembleOptions do not support --clean option
FABRIC-824	Default runtime properties not thread safe
FABRIC-825	Invalid usage of ServiceProxy in test support classes
FABRIC-826	Boot commands do not have abstract component semantics
FABRIC-848	Invalid child container builder API
FABRIC-852	Can't create fabric on windows server 2012 R2

Issue Number	Description
FABRIC-858	Fabric container - Can neither start nor stop it - The container is rouge
FABRIC-861	version-delete returns a TODO, as does the fabric JMX API equivalent
FABRIC-863	Creating child containers does not allow correct pax-web port
FABRIC-868	Getting "No commit message" log statements when reverting a change in hawtio, even though a commit message is being set
FABRIC-869	Creating fuse on openshift online does not work
FABRIC-870	Fuse on OpenShift - Cannot stop containers
FABRIC-875	fabric:crypt-password-set won't set password
FABRIC-876	fabric:crypt-algorithm-set won't set algorithm
FABRIC-877	ServiceLocator leaks ServiceListener
FABRIC-879	Cannot connect to created ssh container with --ensemble-server option
FABRIC-882	Fuse cannot login user on openshift
FABRIC-887	Changing profile on container may cause fabric-git to fail and the container hangs in switching profile state
FABRIC-888	Login data not available on fabric auto create
FABRIC-889	Replace pom.version with project.version
FABRIC-890	Error creating fabric on latest code from master
FABRIC-891	Curator startup may fail with exception silently ignored
FABRIC-894	Fabric fails to create because Git repository already exists
FABRIC-897	Openshift Container Provider always points to the master branch of the cartridge
FABRIC-899	Copy profile does not copy all files - such as other resources
FABRIC-907	Boot commands do not respect RuntimeProperties
FABRIC-909	ManagedCuratorFramework doesn't properly check when restart is required
FABRIC-928	Inconsistency in DynamicReference

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

CHAPTER 4. ENHANCEMENTS

4.1. MESSAGING

Table 4.1, "Messaging Enhancements in 6.1" lists the enhancements in version 6.1.

Table 4.1. Messaging Enhancements in 6.1

Enhancement	Description
ENTMQ-278	Allow XAPooledConnectionFactory to be join an xa transaction - two connection factories in same arjuna jboss jta transaction
ENTMQ-291	Improve mq-web-console style sheet - clash of background and forground text on list items
ENTMQ-307	AMQP hardening
ENTMQ-323	Provide a way to see what the TTL is for a specific message
ENTMQ-324	Please add statistics regarding messageSize
ENTMQ-345	Move MQ integration tests under the MQ project.
ENTMQ-347	Allow JCA bound connection factory to be used outside of managedConnection - apply spec configuration like brokerURL
ENTMQ-359	Ability to determine the slowness of an ActiveMQ consumer
ENTMQ-369	Tell broker to use only space it thinks we have
ENTMQ-376	Please default checksumJournalFiles to true
ENTMQ-391	Add keep alive component to file locker
ENTMQ-392	Allow auto broker restart on xml configuration change feature to be disabled
ENTMQ-393	Allow wildcards in group definitions
ENTMQ-425	Please improve the logging for AMQ JDBC store so that the SQL statements can be logged
ENTMQ-426	Please provide a -port option on mqcreate
ENTMQ-427	Please provide a way to encrypt configured webconsole passwords
ENTMQ-428	Please make webconsole security role error more descriptive

Enhancement	Description
ENTMQ-440	rename activemq-broker feature to a-mq-broker to reflect the fabric dependency (or difference from activemq)
ENTMQ-487	Make hawtio feature complete with web console
ENTMQ-179	Package CMS/NMS in distro
ENTMQ-303	Allow updates of broker configurations, without having to re-start the broker
ENTMQ-308	JMS Client for AMQP
ENTMQ-348	Certify LevelDB
ENTMQ-396	Need a generic XA aware JMS ConnectionFactory that works with Aries TX manager
ENTMQ-351	HawtIO web console branding
ENTMQ-403	Run all FuseByExample demos against 6.1 kits
ENTMQ-419	Fix mq/mq-itests
ENTMQ-456	Package Clients into individual zips
ENTMQ-481	Remove ActiveMQ web console from A-MQ 6.1 kits
ENTMQ-500	ActiveMQ examples - Add repository to our repo so the examples can build
ENTMQ-519	Upgrade to qpid-amqp-1-0-client-jms 0.26
ENTMQ-535	Ensure jms amqp client reports an exception on a transport failure
ENTMQ-265	org.apache.activemq.transport.amqp.joram.JoramJmsTest hangs on several platforms
ENTMQ-297	Why is it 3x slower with transactions?
ENTMQ-298	How best to config system Usage memory limit and per destination memory limit?
ENTMQ-300	network consumers get confused during high traffic volume with consumer re-connects
ENTMQ-373	Messages consumed in a TX from AMQP client are not removed from the Queue
ENTMQ-469	Bug 1011042 - MDB stops processing messages after failover from master to slave
ENTMQ-570	[DOC] release note that jmx.restart is not production ready

Enhancement	Description
ENTMQ-279	RAR - support session enlistment on cached connection (so transaction created after createConnection but before createSession)
ENTMQ-396	Need a generic XA aware JMS ConnectionFactory that works with Aries TX manager
AMQ-2180	infinite networkTTL
AMQ-2429	Show flow control being active on web console ...
AMQ-2932	A little optimization to IdGenerator and a potential issue with the counter
AMQ-3388	Http/https protocol uses Xstream for serializing commands in xml. Field additions to the commands bresks xtream serializacion between amq versions
AMQ-3779	Allow logging broker plugin to use a log per destination
AMQ-4059	activemq-web - Remove dependency on Camel
AMQ-4174	Deleting/moving a message from queue overview should redirect back to overview of the queue
AMQ-4205	Expose thread pool configuration
AMQ-4337	Messages with AMQ_SCHEDULED_DELAY do not respect transactions
AMQ-4365	Allow the Lease Locker to be used with out a JDBCPersistenceAdapter - so it can be a kahadb lock
AMQ-4433	Socket parameters are not validated
AMQ-4438	Add uptime to bstat output
AMQ-4473	Allow enabling remote debug from newly created broker instance
AMQ-4482	Suport systemUsage.memoryUsage.percentOfJvmHeap=70 option
AMQ-4488	KahaDB should log a warning for recovered prepared XA Transactions on startup.
AMQ-4518	Expired Message check being done when its not really needed [Performance Issue]
AMQ-4520	Allow the bouncy castle security provider to be used if present in the lib dir.
AMQ-4522	Allow setting timeToLive when sending messages using JMX
AMQ-4539	make the networkTTL or brokerPath visible via jmx and via a message property

Enhancement	Description
AMQ-4549	The activemq-all and activemq-osgi modules should have proper uber sources.jar files too.
AMQ-4571	Improve DestinationFilter to allow any filter to unsubscribe its wrapped destination from a durable subscruption
AMQ-4577	log level used to say a message ack was ignored because the message is expired should be debug and not warn
AMQ-4584	Allow configuration of a discarding dead letter strategy
AMQ-4593	Upgrade Snappy Java
AMQ-4607	network connectors - new messageTTL and consumerTTL - split usage of networkTTL for mesh topology
AMQ-4621	Provide a polling SlowConsumerPolicy that uses LastAck time on a sub
AMQ-4637	Add cause property to DLQ message that exceed redelivery policy, ref the policy
AMQ-4662	KahaDB default checksumJournalFiles to true
AMQ-4668	REST API only accepts non-form content if content type of text/xml
AMQ-4675	Rest MessageServlet should set cache control header
AMQ-4689	Allow for JobSchedulerStore implementations to be provided by the PersistenceAdapter
AMQ-4706	Failover transport - Add option to configure WARN logging internval for failover attempts still failing
AMQ-4709	Allow wildcards in Authorization plugin group definitions
AMQ-4721	Update slf4j library to latest version (1.7.5 currently)
AMQ-4754	Add connection counters at broker level
AMQ-4758	Improve performance of pull consumers
AMQ-4787	ActiveMQ web console welcome page should not be constrained
AMQ-4795	Enable amqp transport out of the box in activemq-karaf
AMQ-4799	Starting AMQ standalone - ws connector url/port not logged

Enhancement	Description
AMQ-4801	ActiveMQ web demo - chat example - Logs jetty IDLE ERROR 1st time
AMQ-4806	'./bin/activemq console' should 'exec' java so that way scripts calling it can get the pid for the broker's java process.
AMQ-4819	Reducing memory usage should log at INFO/WARN level instead of ERROR
AMQ-4821	runtime config - add support for spring properties config with properties or bean factory
AMQ-4825	ConnectionFactory and ActiveMQCamelComponent should default to the right port if on OpenShift
AMQ-4826	Avoid unnecessary remainder operator for floating-point
AMQ-4831	Average message size attribute on broker mbean should not have decimals
AMQ-4843	runtime config - support addition of composite virtual destinations - forwardTo
AMQ-4844	Provide more granular karaf features
AMQ-4849	runtime config - support modifications to simpleAuthenticationPlugin plugin
AMQ-4852	Show clientId view of duplex network connection Mbeans
AMQ-4856	Change MIME type for XML in the REST API
AMQ-4881	Align xbean and upgrade to 3.15
AMQ-4903	ActiveMQ should depend to http feature instead of jetty
AMQ-4909	OSGi granularity of activemq-osgi bundle
AMQ-4912	StatisticsPlugin - destination stats should include broker info
AMQ-4916	Add JMX stats for Consumers and Producers accessible from the Broker
AMQ-4926	Extends activemq-karaf import version range to work with both Karaf 2 & 3
AMQ-4931	Karaf commands should auto-export interfaces
AMQ-4947	Reduce the reliance on fsync when writing to disk
AMQ-4969	Update the JobSchedulerStoreImpl in KahaDB to use LockableServiceSupport
AMQ-4979	Put back Jolokia management API

Enhancement	Description
AMQ-4989	Better protect worker thread in TcpTransportServer that handles socket accepts
AMQ-5005	Eclipse build with latest Scala plugins fails
AMQ-5007	Upgrade Proton to v0.6
AMQ-5011	Statistics plugin doesn't fill in Message timestamp or priority
AMQ-5031	Allow isSameRM override from broker identity to connection identity to avoid xa.join
AMQ-5049	Set headless when running tests.
AMQ-5050	Populate a 'Host' header in the WireFormatInfo of the Openwire protocol to let multi-tenant proxies route connections
AMQ-5076	Pooled session creation blocks when maxActive is reached
AMQ-5078	Typos in stomp/ProtocolConverter.java
AMQ-5091	Upgrade to jolokia 1.2
AMQ-3024	Scheduler should support non-Kaha persistence
AMQ-3097	add Function calls to selectors
AMQ-3452	add 'stop' goal to the maven-activemq-plugin
AMQ-3621	Integrate Apache Shiro with ActiveMQ as "security solution"
AMQ-4175	Adding a retry-button
AMQ-4188	ActiveMQ Karaf Command for overview of queues alike what you see in the web console
AMQ-4483	Improve DLQ handling
AMQ-4509	activemq-maven-plugin should have a stop goal
AMQ-4526	ActiveMQ should automatically restart if a Locker looses it's lock.
AMQ-4567	JMX operations on broker bypass authorization plugin
AMQ-4574	Add EndpointCompleter functionality to ActiveMQ Camel component
AMQ-4594	Replace web console with hawtio

Enhancement	Description
AMQ-4617	Enable MQTT over WebSocket protocol
AMQ-4635	Expose producer flow control statistics via JMX
AMQ-4682	runtime configuration - allow selective application of changes to xml configuration without broker restart
AMQ-4690	create a camel component for intercepting messages as they pass through the Broker
AMQ-4697	Add the ability to show average message size per destination
AMQ-4718	Extra options added to a failover/discovery URL that don't map to failover configuration settings, should get passed to the nested URLs.
AMQ-4723	HTTP Discovery agent should only poll for broker URLs while attempting to connect a transport.
AMQ-4757	Provide a generic jms XA connection pool
AMQ-4760	Add dstat command to activemq karaf commands
AMQ-4766	Expose Message Group maps via JMX
AMQ-4918	Added JMX metics for networks per destination
AMQ-4946	include activemq-jms-pool in activemq-all
AMQ-4968	Add new mode to JMS Pool that allows for not caching producers
AMQ-4990	Add support for the changes in MQTT 3.1.1
AMQ-5072	Support configuring a different directory for the KahaDB index files.
AMQ-4251	Scala compile warnings - Compiling activemq-leveldb-store
AMQ-4524	Remove camel-jetty dep from project
AMQ-4552	activemq-karaf - Should be able to install in Karaf 2.3
AMQ-4557	Upgrade dependency to karaf 2.3.1
AMQ-4732	maven : add IssueManagement declaration
AMQ-4733	Upgrade to Jasypt 1.9.1

Enhancement	Description
AMQ-4734	Upgrade Jolokia to 1.1.3
AMQ-4745	Upgrade to json-simple 1.1.1
AMQ-4749	Upgrade to xerces 2.11.0
AMQ-4750	WebConsole readme in assembly should be updated with hawtio details
AMQ-4751	Upgrade to commons-io 2.4
AMQ-4752	Upgrade to derby 10.10.1.1
AMQ-4780	Upgrade to qpid 0.24
AMQ-4784	Upgrade Jolokia to 1.1.4
AMQ-4803	Examples - Update instructions due recent moving of files to new directory
AMQ-4816	Update deprecated code in activemq-camel tests
AMQ-4839	deprecated JMS streams
AMQ-4858	Scala source file forgotten in /src/main/java
AMQ-4883	Fusesource release repo not needed
AMQ-4885	Typos in MessageStore
AMQ-5060	Upgrade to xstream 1.4.7
AMQ-5064	Update QPid client to v0.26
ENTESB-1220	Update to RH built native libs
ENTMQ-500	ActiveMQ examples - Add repository to our repo so the examples can build

4.2. CONTAINER

Table 4.2, "Container Enhancements in 6.1" lists the enhancements in version 6.1.

Table 4.2. Container Enhancements in 6.1

Enhancement	Description

Enhancement	Description
ARIES-1038	be able to easily use Blueprint inside a WAR in any servlet container using blueprint-noosgi and a ServletContextListener to boot up all the blueprint XML files
ARIES-1069	Publish a single interface for better integration of the TransactionManager with other low-level components
ARIES-1082	Add a way to use property placeholders to define filters on service references
ARIES-998	Support a subset of blueprint outside OSGi
FELIX-4316	Packages imported dynamically should also be imported statically with an optional flag
FELIX-4317	SCR implementation should avoid using bundleContext.getBundle()
FELIX-4339	Make the use of escape characters deterministic
FELIX-4343	[DS] rationalize log levels
FELIX-3997	Provide an abstract bundle extender

4.3. FUSE FABRIC

Table 4.3, "Fabric Enhancements in 6.1" lists the enhancements in version 6.1.

Table 4.3. Fabric Enhancements in 6.1

Enhancement	Description
FABRIC-106	Rename the following command "container-domains" to "container-jmx-domains"
FABRIC-346	support git repos as the storage mechanism for Fabric configuration
FABRIC-375	Provide encryption capabilities in Fabric Profiles and Fuse ESB configuration files
FABRIC-377	Create a command for profiles to pick up new versions
FABRIC-379	Make Fabric Patch Process available via the CommandLine
FABRIC-389	have a fabric-web agent so that any web app deployed into karaf is automatically registered into the ZooKeeper /fabric/clusters/web/:groupId/:artifactId/:version/:profile/:container URI
FABRIC-391	Unable to create child container on remote root container using oracle JDK 7 on linux
FABRIC-410	Should be able to specify multiple -p/--profile arguments to fabric:create

Enhancement	Description
FABRIC-419	Ability to Create Root Container on the Local Host
FABRIC-430	camel-fabric should support to set the zookeeper client options from component level.
FABRIC-435	RandomLoadBalanceStrategy should check the empty of alternateAddressList
FABRIC-438	Add a simple lock service based on the zookeeper recipes
FABRIC-439	Improve the way Fabric detects port usage by containers
FABRIC-445	Fabric profile should allow renaming and copying of profile.
FABRIC-451	Allow the zookeeper URL to bind to a specific address
FABRIC-452	Replace the zookeeper client with curator.
FABRIC-453	fabric:create should allow the user to be able to specify the initial git repo to use as the source of the configuration
FABRIC-455	there seems to be a branch called 1.0-tmp left after using the fabric-git-zkbridge - can we delete it?
FABRIC-458	Add caching to the zookeeper datastore
FABRIC-460	Provide a way to report bluprint/spring context failures in fabric.
FABRIC-465	Improve usability of profile import/export options
FABRIC-471	Fabric should skip ephemeral nodes when copying entries between ensembles.
FABRIC-472	FabricService and DataStore should provide means of untracking configuration
FABRIC-475	Upgrade to jclouds 1.6.x
FABRIC-482	Fabric doesn't allow remote host user/password to be changed once the container is created.
FABRIC-491	Upagrade to the latest stable zookeeper version (3.4.5).
FABRIC-553	Add a placeholder resolver for environment variables.
FABRIC-554	Wait for placeholder resolvers before substitution
FABRIC-560	Align the jclouds container provider with the rest of the container providers and use SCR.

Enhancement	Description
FABRIC-563	Provide a container placeholder resolver.
FABRIC-600	fabric:create and fabric-ensemble-add/remove should provide more control over the zookeeper server configuration.
FABRIC-606	Creating containers on openshift often fails
FABRIC-729	Encryption placeholder resolver is not workable
FABRIC-750	org.apache.zookeeper.server.PrepRequestProcessor logging is too noisy
FABRIC-789	Creating fabric from CLI - Have some information that it takes a little while for the fabric to be ready
FABRIC-801	In OpenShift, after instantiating the cartridge there is no link to the management console
FABRIC-161	git mirror for fabric configuration
FABRIC-320	Provision jetty using fabric
FABRIC-428	add a profile URL handler so folks can load configuration files for their profile
FABRIC-429	Abstract out profile storage
FABRIC-433	support profiles which load their blueprint XML from inside the profile configuration (e.g. from git / ZK tree) - and then detect changes in the configuration and reload the services
FABRIC-434	fabric-cxf FabricLoadBalancerFeature support to take effect on client after setting to bus
FABRIC-463	Provide the ability to partition task and balance them accross containers
FABRIC-473	Integrate Fabric with the Process Manager so that we can manage process on remote fabric containers
FABRIC-499	Ability to specify Java version used by fabric container
FABRIC-500	Add global resource repositories for resolution via the fabric-agent
FABRIC-501	fabric/file-dozer-watcher - a component to watch dozer mappings file changes and sync that into a camel context type converter registry
FABRIC-525	Add an openshift container provider implementation
FABRIC-526	Provide an option to select which DEFAULT_VERSION we would like to use when we create the first time the Zookeeper server and load the profiles

Enhancement	Description
FABRIC-562	Add firewall management support of openstack based clouds.
FABRIC-508	Fix fuse ignored tests
FABRIC-512	Fix insight log4j SourceTest
FABRIC-517	Fix tooling camel LocalCamelFacadeTest
FABRIC-519	Fix duplicate jboss-fuse artifact-id
FABRIC-558	Define and implement a policy on handling of zombie containers.
FABRIC-596	Review fuse repository setup in the maven build
FABRIC-625	Exclude tooling modules from the default build
FABRIC-629	Remove dependency on blueprint from fabric-zookeeper
FABRIC-636	Remove initial configuration for ZooKeeperClusterBootstrapImpl
FABRIC-652	Make sure every ignored test references a jira
FABRIC-655	Revisit DataStore handling
FABRIC-672	Fix fabric basic ExampleCxfProfileTest
FABRIC-675	Fix insight log PaxLoggingTest
FABRIC-691	Fix fabric smoke tests
FABRIC-712	Fix possible synchronization issues
FABRIC-723	Update to apache-maven-3.1.1
FABRIC-775	Split ESB test suite up in smoke, basic, extra
FABRIC-788	WARN in log when creating child container
FABRIC-798	Migrate boot commands to SCR
FABRIC-807	WTF is the google map view for?
FABRIC-846	Move ServiceProxy and ServiceLocator to fabric-api
FABRIC-874	Bootstrap completion not properly defined

Enhancement	Description
FABRIC-886	Define stability criteria and fix remaining stability issues
FABRIC-966	Define the scope of public API in 6.1
FABRIC-509	Fix fabric groups GroupTest
FABRIC-510	Fix fab/tests/fab-itests
FABRIC-528	Fix fabric camel MasterEndpointFailoverTest
FABRIC-529	Fix fabric core PatchServiceImplTest
FABRIC-535	Fix fabric git CachingGitDataStoreTest
FABRIC-590	Fix fabric basic GitBridgeTest
FABRIC-614	Migrate upstream jobs to Jenkins
FABRIC-615	Install GitHub Pull Request Plugin
FABRIC-616	Enforce verify before commit rule
FABRIC-617	Fix fab/fab-core tests
FABRIC-619	Publish artefacts from the last successful master run to Nexus
FABRIC-621	Fix mq smoke GracefullFailOverTest
FABRIC-628	Review branches on fuse-fabric/fuse
FABRIC-637	Fix fabric smoke AutoClusterStartupTest
FABRIC-638	Fix fabric smoke ContainerRegistrationTest
FABRIC-639	Fix fabric smoke ContainerStartupTest
FABRIC-640	Fix fabric smoke ContainerUpgradeAndRollbackTest
FABRIC-641	Fix fabric smoke CreateChildContainerTest
FABRIC-642	Fix fabric smoke DeploymentAgentTest
FABRIC-643	Fix fabric smoke EnsembleTest
FABRIC-644	Fix fabric smoke FabricDosgiCamelTest

Enhancement	Description
FABRIC-645	Fix fabric smoke FabricMavenProxyTest
FABRIC-646	Fix fabric smoke JoinTest
FABRIC-647	Fix fabric smoke ProfileEditTest
FABRIC-648	Fix fabric smoke ResolverTest
FABRIC-649	Fix fabric smoke FabricCreateTest
FABRIC-654	Monitor disk usage and provide automated cleanup
FABRIC-660	Fix esb smoke DuplicateBundlesTest
FABRIC-661	Fix esb smoke EsbExampleFeaturesTest
FABRIC-662	Fix esb EsbFeaturesTest
FABRIC-663	Fix fabric core ContainerImplTest
FABRIC-665	Fix fabric basic JaasRealmTest
FABRIC-666	Fix fabric basic SelfUpdateTest
FABRIC-667	Fix fabric basic CamelProfileTest
FABRIC-668	Fix fabric basic FabricCamelComponentTest
FABRIC-669	Fix fabric basic EsbProfileTest
FABRIC-670	Fix fabric basic ExampleCamelCxfTest
FABRIC-671	Fix fabric basic ExampleCamelProfileTest
FABRIC-673	Fix fabric basic ExampleMQProfileTest
FABRIC-676	Fix tooling amq LocalBrokerFacadeTest
FABRIC-677	Fix tooling camel ActiveMQLocalCamelFacadeTest
FABRIC-678	Fix tooling camel ExternalRemoteCamelFacadeTest
FABRIC-679	Fix tooling camel JmxTemplateRemoteCamelFacadeTest
FABRIC-680	Fix tooling camel RemoteCamelFacadeTest

Enhancement	Description
FABRIC-681	Fix mq smoke KillSessionFailOverTest
FABRIC-682	Fix mq smoke MQDistroTest
FABRIC-683	Fix mq MQFabricTest
FABRIC-684	Fix stream bridge ConnectionFactoryAdapterTest
FABRIC-689	Fix fabric dosgi TransportFailureTest
FABRIC-690	Allow failed builds to get rescheduled automatically
FABRIC-700	Fix fabric basic ExtendedJoinTest
FABRIC-704	Security vulnerability on Jenkins master/slaves
FABRIC-709	Fix fabric dosgi InvocationTest
FABRIC-724	Make sure perfectus updates get validated
FABRIC-725	Stabilize -Pall profile build
FABRIC-727	Fix fabric basic ProfileScalingTest
FABRIC-742	Doc review - Fabric Guide - URL Handlers
FABRIC-777	Fix fabric basic ExtendedCreateChildContainerTest
FABRIC-784	Fix ExtendedEnsembleTest
FABRIC-796	Fix esb basic EsbProfileRedeployTest
FABRIC-812	Fix esb EsbProfileLongTest
FABRIC-847	Fix fabric basic ExampleCamelClusterTest
FABRIC-903	Fix ExtendedJoinTest
FABRIC-905	Tests with child containers may fail due to provisioning issues
FABRIC-906	Fix ExampleMQProfileTest
FABRIC-931	Container fails to provision
FABRIC-939	Container child2 failed to provision. Status: Exception:null

Enhancement	Description
FABRIC-940	Cannot create container in time
FABRIC-963	Documentation - Add to release notes / known issues about starting Fuse on Windows with IP6 network issue

CHAPTER 5. APACHE DEPENDENCIES

The following Apache projects are used in version 6.1:

Apache ActiveMQ

Red Hat JBoss Fuse includes Apache ActiveMQ 5.9

Apache Karaf

Red Hat JBoss Fuse includes Apache Karaf 2.3