



Red Hat JBoss A-MQ 6.0

Release Notes

What's new in Red Hat JBoss A-MQ

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What's new in Red Hat JBoss A-MQ

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Abstract

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

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CHAPTER 1. KNOWN ISSUES

The following issues are known to exist in 6.0:

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

JBoss A-MQ's console is normally launched using the `amq` command which is fully functional. However, JBoss A-MQ 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 \(x64\)](#) installed or JBoss A-MQ will not start.

`container-create-child` causes a malformed URL exception on Windows

The JVM classes that handle the validation of the JMX URL cannot process underscores.

As a workaround, change the resolver of the container to use local ip instead of hostnames. This can be done with the following command:

```
fabric:container-resolver-set --container containerName localip
```

CHAPTER 2. RESOLVED ISSUES

MESSAGING

Table 2.1, “Messaging Issues Resolved in 6.0” lists the issues resolved between Fuse MQ Enterprise 7.1 and 6.0.

Table 2.1. Messaging Issues Resolved in 6.0

Issue Number	Description
AMQ-1870	JDBC exception when sending and receiving a lot of messages
AMQ-2098	Advisory messages are empty when received with a Stomp subscription
AMQ-2740	NullPointerException in Web Console when using an existing browser session with a restarted broker instance
AMQ-2832	<p>Possible replay of old messages post index recovery from journal - data files containing acks reclaimed/cleaned up in error</p> <p>In Fuse MQ 6.0, to take advantage of this fix, it is also necessary to set the forceRecoverIndex attribute to true in the kahaDB configuration element. For example:</p> <pre><kahaDB directory="{activemq.data}/kahadb" forceRecoverIndex="true" /></pre>
AMQ-3016	Race condition in DemandForwardingBridgeSupport can cause remote connection to be leaked.
AMQ-3038	Possible Memory-Leak as ActiveMQTempDestinations don't get deleted when ActiveMQConnection.close() is called
AMQ-3261	Setup writes incorrect jmx port
AMQ-3485	TransactedSession returns invalid MessageConsumer after the first MessageConsumer for the same destination.
AMQ-3539	Prefetch state can be incorrect when transacted redelivery of duplicates occurs, causing stalled queue

Issue Number	Description
AMQ-3746	Non Durable Topic subscription with <code>prefetch=0</code> , <code>MessageConsumer.receiveNowait()</code> hangs indefinitely
AMQ-3791	Flexibility, concurrency, security, and compatibility issues in <code>CachedLDAPAuthorizationMap</code>
AMQ-3906	Repeated error message regarding chunk stream logged
AMQ-3930	<code>DataFileNotDeletedTest.testForDataFileNotDeletedTransacted()</code> fails intermittently
AMQ-4033	Broker uses custom <code>RMIServerSocketFactory</code> class which cannot be unloaded due socket reuse
AMQ-4062	<code> durableTopicPrefetch </code> attribute in <code>policyEntry</code> in <code>activemq.xml</code> doesn't take effect
AMQ-4103	<code>LeaseDatabaseLocker</code> can not be changed from 5 sec poll
AMQ-4106	STOMP+NIO and Heartbeats gives consistent <code>InactivityIOException</code>
AMQ-4108	Cannot receive <code>ActiveMQ.Advisory.MasterBroker</code> messages when master dies and slave takes control
AMQ-4116	Memory usage is not cleared from the source queue when a message is moved to another queue over the <code>VMTransport</code>
AMQ-4117	MQTT Inactivity Monitor doesn't respect client keep alive setting.
AMQ-4122	Lease Database Locker failover broken
AMQ-4123	Improve MQTT Inactivity Monitoring
AMQ-4126	<code>stomp+nio+ssl + jaasDualAuthenticationPlugin + certificate authentication</code> fails
AMQ-4132	<code>Openwire+nio+ssl</code> require to specify <code>transport.enabledCipherSuites</code> property

Issue Number	Description
AMQ-4133	Different behaviour with similar connectors with identical option, URI validation would be nice to have
AMQ-4134	Add XA support to the LevelDB store
AMQ-4137	Create a store import/export command line tool to covert between store types
AMQ-4140	maven-activemq-plugin fails to resolve path to XBean file in multi-module builds, and does not have a skip flag
AMQ-4142	SimpleAuthenticationPluginTest hangs intermittently on Hudson
AMQ-4145	IntrospectionSupport does not convert from primitive to Wrapper classes appropriately
AMQ-4147	Memory usage incorrectly updated across network of brokers when VMTransport is used
AMQ-4148	Static subscriptions from network bridges do not respect TTL (off by one in calculation), resulting in duplicate consumers
AMQ-4149	Removal of inactive durable subscribers not working after broker restart
AMQ-4153	ActiveMQWASInitialContextFactory issue in transform logic
AMQ-4154	Karaf activemq feature can't be installed due to the unresolved dependencies
AMQ-4157	KahaDBTransactionStore.removeAsyncMessage may cancel addMessage when in transaction leading to unpersisted messages
AMQ-4158	BTreeIndexTest hangs when run on Windows
AMQ-4159	Race condition in SimpleDiscoveryAgent creates multiple concurrent threads attempting to connect to the same bridge
AMQ-4160	DiscoveryNetworkConnector can lose track of active bridges, resulting in permanent bridge failure or continued attempts to re-connect existing bridges

Issue Number	Description
AMQ-4166	RedeliveryPlugin causes a deadlock with JobSchedulerImpl
AMQ-4167	MQTTTest.testInactivityTimeoutDisconnectsClient is failing
AMQ-4168	MQTTSSLTest.testTurnOffInactivityMonitor Disabled
AMQ-4171	KahaDB / Journal rotateWriteFile() sometimes too fast?
AMQ-4172	RAR needs additional module includes post module refactor
AMQ-4179	Can't install activemq-extra feature
AMQ-4182	Memory leak for ActiveMQBytesMessage with compression
AMQ-4183	AMQ 5.7 lost long queue names with filteredKahaDB
AMQ-4186	web-console xml views have duplicate contenttype headers - jsp errors
AMQ-4195	activemq-admin bstat command predefined query isn't even run
AMQ-4196	Race condition between removal of subscriptions and removal of destinations in a network of brokers
AMQ-4201	JMSX* properties not included in the getPropertyNames() enumeration
AMQ-4209	NetworkConnector and NetworkBridgeConfiguration have same named private variables for excludedDestination
AMQ-4210	DynamicallyIncludedDestinations is not enforced for the other end of duplex bridge

Issue Number	Description
AMQ-4215	Simplify PList interface and provide a LevelDB store implementation
AMQ-4218	JMS selector statement not displayed correctly in subscribers web view if contains XML-prohibited characters
AMQ-4220	PageFile is not loaded when recreating queue and perDestination="true"
AMQ-4222	ProducerBrokerExchange holds reference to "region" destination after message has been sent
AMQ-4226	Broker destination zero prefetch and RAR endpoint listener are incompatible b/c RAR is starved of messages - log an error to highlight
AMQ-4227	ActiveMQSslConnectionFactory does not allow for regular files to be found unless a valid URL is provided or is located on the classpath
AMQ-4234	Broker destination policy prefetch value is ignored by stomp consumers
AMQ-4246	Change Type of offlineDurableSubscriberTimeout and offlineDurableSubscriberTaskSchedule to long
AMQ-4249	Race condition in PropertiesLoginModule
AMQ-4254	BrokerXmlConfigStartTest fails intermittently
AMQ-4258	Endless loop when received incorrect AMQP message
AMQ-4260	MessageGroupLateArrivalsTest fails intermittently
AMQ-4265	AMQ4220Test is failing
AMQ-4266	Missing proton-api as dependency
AMQ-4268	DurableSubscriptionOfflineTest has several failures
AMQ-4270	BrokerNetworkWithStuckMessagesTest hangs occasionally

Issue Number	Description
AMQ-4272	No connection could be found for ID NC_
AMQ-4273	JobSchedulerTest has 2 test cases that fail intermittently
AMQ-4274	Potential deadlock between FailoverTransport and AbstractInactivityMonitor
AMQ-4275	maven plugin goal "activemq:run" cannot run in latest 5.8 snapshot
AMQ-4278	Deprecate XMPP transport
AMQ-4281	ActiveMQConnectionFactoryTest fails intermittently
AMQ-4282	Deadlock in test BrokerNetworkwithStuckMessageTest
AMQ-4285	NetworkFailoverTest failing
AMQ-4286	NioQueueSubscriptionTest . testLotsOfConcurrentConnections fails
AMQ-4288	OptimizedAckTest fails intermittently
AMQ-4289	activemq-perf-maven-plugin is unusable because of bug in ReflectionUtil helper class
AMQ-4291	org.apache.activemq.transport.stomp.StompTest#testReplyToAcrossConnections mostly fails
AMQ-4296	Unit tests fail intermittently when using LevelDB adapter
AMQ-4297	Stomp deadlock on commit
AMQ-4306	BTreeIndexTest . testRandomAddRemove () is very slow on Solaris
AMQ-4307	org.apache.activemq.transport.http.HttpClientReconnectTest hangs occasionally
AMQ-4308	HttpsTransportBrokerTest hangs occasionally
AMQ-4312	NIO+SSL Connector fails with SSL exception under high concurrency

Issue Number	Description
AMQ-4315	Duplicate files in distribution
AMQ-4317	activemq-camel feature doesn't work
AMQ-4319	ActiveMQ destination are tracked by securitycontext and never cleaned up, causes ActiveMQ to crash
AMQ-4320	Destinations are not auto created when using Composite Destination configured on the broker
AMQ-4321	NIO+SSL Connector corrupts stream when data size exceeds SSL buffer size
AMQ-4322	org.apache.activemq.leveldb.LevelDBFastEnqueueTest hangs on Windows
AMQ-4323	Last modified producer audit checkpoint can prevent gc with cached bursty producers
AMQ-4330	Removal of Master/Slave removed isSlave() JMX api
AMQ-4331	MessageSelectorTest fails because of dated config file
AMQ-4332	LargeQueueSparseDeleteTest gets timeouts on testMoveMessages and testRemoveMessages
AMQ-4333	ActiveMQ 5.8: Failed to execute purge task
AMQ-4338	MQTTSSLTest has multiple test cases that fail frequently
AMQ-4342	MemoryUsageCleanupTest fails intermittently
AMQ-4345	NIOSSLConcurrencyTest.testLoad fails on slow boxes
AMQ-4351	Deadlock when unsubscribing durable subscriber
AMQ-4355	RedeliveryRestartTest hangs intermittently
AMQ-4363	org.apache.activemq.store.jdbc.JDBCXACommitExceptionTest has 2 test failures

Issue Number	Description
AMQ-4364	Cannot delete queue via JMX or JConsole
AMQ-4366	PooledConnectionFactory closes connections that are in use
AMQ-4369	Default IOException handler needs to be set before Persistence adapter and network connectors are started
AMQ-4373	JMS Client isn't throwing JMSSecurityException with invalid login credentials
AMQ-4375	org.apache.activemq.transport.amqp.joram.JoramJmsTest UnifiedSessionTest hangs on Windows
AMQ-4377	Bring back activemq-blueprint module and feature
AMQ-4379	org.apache.activemq.transport.amqp.JMSClientTest fails on Windows
AMQ-4384	KahaDBStoreRecoveryBrokerTest has multiple failures on windows
AMQ-4385	LevelDBXARecoveryBrokerTest has multiple failures on Windows
AMQ-4386	AMQ4133Test has 2 additional test case failures on Windows
AMQ-4387	AMQ4126Test has additional test failures on Windows
AMQ-4388	org.apache.activemq.bugs.AMQ3625Test fails on Windows
AMQ-4389	AMQ4351Test fails on slow boxes
AMQ-4392	MQTT BlockingConnection disconnect doesn't disconnects the client connection
AMQ-4393	Web console does not show connections info
AMQ-4397	XSS vulnerability in scheduled.jsp
AMQ-4398	XSS vulnerability in demo web application

Issue Number	Description
AMQ-4400	org.apache.bugs.LoadBalanceTest fails intermittently
AMQ-4406	Remove command agent
AMQ-4407	mKahaDB: PageFile is not loaded when recreating queue
AMQ-4408	no network bridge loopback suppression with url scheme mismatch
AMQ-4410	Typo in PooledConnectionFactory.java
AMQ-4411	activemq-osgi <Bundle-NativeCode> directive is too strict - needs to be optional
AMQ-4415	AMQ2584Test, AMQ2870Test, and several others hang or fail on some platforms when using LevelDB
AMQ-4427	Many of the activemq-http tests are failing on Jenkins
AMQ-4432	Validate camel context within activemq.xml in Apache Karaf
APLO-282	org.iq80.leveldb.DBException - possible LevelDB store corruption?
ENTESB-668	Plug in provder should be Red Hat, Inc.
ENTMQ-177	PListImplTest fails on AIX and Solaris
ENTMQ-187	MQTSSLTest has multiple test cases that fail frequently
ENTMQ-236	Re-enable excluded tests after platform builds
ENTMQ-244	QueueMasterSlaveSingleUriTest hangs on Windows
ENTMQ-265	JoramJmsTest hangs on several platforms
MB-1185	JConsole browse() function does not work if useCache=false
MB-1218	Durable subscription not getting unregistered on networked broker

Issue Number	Description
MB-1221	Setting queue policy queuePrefetch=0 in broker configuration causes messages to stay in pending state in broker
MB-1224	ExpiredMessages > Prefetch Queue results in messages no longer being dequeued
MB-1239	NIO + SSL: Client certificates are null
MB-1242	kahaDB Commit Failed with NPE using XA Transactions
MB-1246	Browsing a queue is not returning the actual number messages on the queue
MB-1247	InactivityMonitor thread does not catch ThreadPoolExecutor exceptions
MB-1250	Missing Data file for plist temp store on file pending message queue cursor overflow
MB-1251	Messages lost on Virtual Topic when no active consumer attached
MB-1255	next () and hasNext () are never called without first calling reset ()
MB-1260	Prefetch limit not remembered during failover
MB-1261	conditionalNetworkBridgeFilterFactory ignores NetworkTTL when replayWhenNoConsumers is set to true and forward messages to network consumer
MB-1263	Network Dead Lock using duplex network connector for NOB
MB-1264	Job Scheduler Store Growth is Unrestricted
MB-1266	SessionPool of activemq-pool needs to destroy connection object if it failed to start the connection
MB-936	Change way Broker MBean name is generated so that port is not used

Issue Number	Description
MB-991	When a producer from a network bridge is blocked by producer flow control, all producers from the network bridge get blocked
ENTMQ-184	Remove references to Fuse
ENTMQ-205	Windows commands in readme.txt should have \
ENTMQ-242	Web Demo doesn't work

CONTAINER

Table 2.2, “[Container Issues Resolved in 6.0](#)” lists the issues resolved between Fuse MQ Enterprise 7.1 and 6.0.

Table 2.2. Container Issues Resolved in 6.0

Issue Number	Description
ARIES-1004	When the framework is being shut down, blueprint bundles are not shut down orderly
ARIES-1020	Blueprint disables service too soon at shutdown
ARIES-1025	Orderly shutdown is ineffective for containers using the ext/cm namespace
ARIES-1040	Exception during jpa-container shutdown
ARIES-1043	Error in Export-Service header in blueprint-core
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

Issue Number	Description
ARIES-991	Concurrency issue which can cause a service to be kept registered
ENTESB-583	SNAPSHOT dependency in Aries' proxy-api
ENTESB-517	Deploying war throws <code>java.lang.IllegalArgumentException: bundle context should be set before refreshing the application context</code>
ENTESB-607	karaf-2.3.0.fuse-7-2-x-stable build has 23 test failures
ENTESB-619	Progress bar stops at 98%
ENTESB-647	Exception with tx decorated bean as ref argument of factory method
ENTESB-649	Karaf console wraps on Windows 7 when connecting using the client
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-1824	tooling-exam contains reference to wrong commons-io artifact
KARAF-1858	itests look stuck (use 100% CPU)
KARAF-1882	Provide Level attribute in the LogMBean
KARAF-1921	Upgrade to Spring 3.1.x for Karaf 2.3.x
KARAF-2117	LDAP login module is broken
KARAF-2154	Entering an empty command removes previous command in history
KARAF-2167	KarafManipulatorFactory creates invalid version qualifier
KARAF-2209	Allow overriding system properties

Issue Number	Description
KARAF-2221	The admin service is not safe when used to create / start agents quickly
KARAF-2244	BundleWatcher should wait for refresh to be finished before updating another bundle
FELIX-3242	Concurrent modification problem in StatefulResolver\$ResolverStateImpl.getCandidates
FELIX-3273	Possible exception when accessing headers
FELIX-3367	getClassloader permission
FELIX-3411	The implementation of org.osgi.service.startlevel.StartLevel#setStartLevel(int) does not follow the spec
FELIX-3618	Should not allow bundles to use generic cap/req headers for osgi.wiring.* namespaces
FELIX-3632	Parsing of delimited strings in manifest parser collapses all consecutive escapes
FELIX-3670	PackageAdmin.isBundleType throws NPE for uninstalled bundle
FELIX-3713	Bundle.start() returns without starting the bundle
FELIX-3743	Potential endless loop setting the active framework startlevel
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

Issue Number	Description
FELIX-3824	Possible IllegalStateException thrown while unregistering bundle services
FELIX-3840	problem with URLHandlers when running 2 frameworks in one jvm in separate class loaders
FELIX-3844	Native bundles cannot be installed on Windows 8 and Windows Server 2012
FELIX-3852	InstallBundle throws ClassCastException: java.util.jar.Attributes\$Name cannot be cast to java.lang.String
FELIX-3907	NullPointerException in BundleWiringImpl when m_disposed is true
FELIX-3957	Error events can be thrown when refreshing fragment bundles

FUSE FABRIC

Table 2.3, “Fuse Fabric Issues Resolved in 6.0” lists the issues resolved between Fuse MQ Enterprise 7.1 and 6.0.

Table 2.3. Fuse Fabric Issues Resolved in 6.0

Issue Number	Description
FABRIC-204	Provide support for bundles and features that use the fab url handler inside Fabric
FABRIC-348	The fabric profiles ensemble-xxxx should not be allowed to be manually added to a container
FABRIC-349	Containers that are added using fabric:join cannot be added to the ensemble
FABRIC-351	Child container cannot be started when both -Xmx and "-Xrunjdp:transport..." JVM options passed in on creation
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

Issue Number	Description
FABRIC-357	Invalidate both username and password when authentication fails
FABRIC-358	Property placeholders should not always substituted by empty string when are not resolved
FABRIC-359	Fabric loadbalancer attempts to access inactive container
FABRIC-363	Version create and update does not properly propagate entries in the registry
FABRIC-364	fabric:container-list can displays profiles with commas out of place
FABRIC-365	Modifying the ensemble will not work if the version of the containers has changed
FABRIC-366	features:info inside fabric sometimes returns feature not found, for existing features
FABRIC-367	Error moving to an earlier profile version
FABRIC-368	fabric-camel component doesn't support password when managing the zookeeper client
FABRIC-369	fabric-cxf doesn't support password when managing the zookeeper client
FABRIC-370	Incomplete cleanup of registry entries when deleting containers
FABRIC-376	Error installing transaction feature on fabric child container
FABRIC-380	ensemble:add changes zookeeper password
FABRIC-383	User creation and prompts from shell shouldn't add username to history
FABRIC-390	Fabric should prevent you from setting a non-existent resolver
FABRIC-395	cluster-list throws NPE
FABRIC-397	Unable to provision FAB on remote fabric container

Issue Number	Description
FABRIC-398	Features Repository not able to be resolved
FABRIC-400	StringIndexOutOfBoundsException thrown when trying to deploy artifacts
FABRIC-404	Possible corruption of jars when downloading SNAPSHOTS from the maven proxy
FABRIC-405	Deploying the eip example project to a fabric fails
FABRIC-407	Repeated creation of container via ssh makes Fuse Fabric unstartable
FABRIC-408	fabric:create failure due to connection loss
FABRIC-411	NullPointerException when try to upgrade version of non-existing container
FABRIC-412	Please add a warning message when changing ensembles to indicate the port is changing
FABRIC-416	Missing dependency in profile activemq-client
FABRIC-418	Client connections not being picked up by fabric-activemq-facade
FABRIC-420	ChildContainerProvider should not use the build version to identify the feature repo version

MANAGEMENT CONSOLE

Table 2.4, “Issues Resolved in 6.0:” lists the issues resolved between Fuse MQ Enterprise 7.1 and 6.0.

Table 2.4. Issues Resolved in 6.0:

Issue Number	Description
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-447	Can't create user with password 5 characters long through FMC

Issue Number	Description
FMC-453	Profiles page needs initial loading widget
FMC-454	ActiveMQ broker not working when creating child through fabric management console
FMC-455	Creating profiles with spaces cause an Error Failed to access container details message in the FMC Containers tab
FMC-457	Not seeing anything in Message Broker Network Connectors tab for a network of brokers
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

CHAPTER 3. ENHANCEMENTS

MESSAGING

Table 3.1, “Messaging Enhancements in 6.0” lists the enhancements between Fuse MQ Enterprise 7.1 and 6.0.

Table 3.1. Messaging Enhancements in 6.0

Enhancement	Description
AMQ-1469	Change the Default Local Process Name to Something More Descriptive Than "run.jar"
AMQ-3215	Drop-down list to move messages from one queue to another is not wide enough to show complete queue names
AMQ-3707	Dynamic failover client connection params broker side attribute
AMQ-3883	activemq-jaas authorization doesn't work with Karaf JAAS LoginModule
AMQ-3914	Add support for MS SQL JDBC driver 4.0
AMQ-4005	Implement pluggable broker lockers
AMQ-4019	Make better use of commons-pool in activemq-pool
AMQ-4024	Use FQDNs when updating cluster clients
AMQ-4034	Create Karaf Integration Test
AMQ-4078	Unable to start ActiveMQ as Windows Service when there is space in the folder path
AMQ-4082	Refactor network bridge start/stop to reduce async tasks and synchronisation - it is way to complicated atm
AMQ-4124	Disable sample web application from out of the box broker
AMQ-4125	deprecate kaha and amq store
AMQ-4129	Add support for Stomp v1.2
AMQ-4161	List of Messages from StatsPlugin is not delimited

Enhancement	Description
AMQ-4165	Remove pure master/slave functionality
AMQ-4169	correct maven-X-plugin naming to respect convention
AMQ-4177	browseMessages() fails when using Jolokia to browse JMX
AMQ-4180	Use hawtbuf in activemq-client to make message properties and MapMessage body unmarshal more lazy
AMQ-4190	Figure out what was intended with transactions and producer flow control for topics
AMQ-4198	Include username in ConnectionInfo for ActiveMQ.Advisory.Connection messages
AMQ-4202	JMSUserID missing from ActiveMQConnectionMetaData getter
AMQ-4213	ActiveMQMessageProducer sends producer registration async which causes it to miss possible exceptions on creation like security exceptions
AMQ-4225	PooledConnectionFactory should track Session checkouts and close associated resources
AMQ-4233	Allow ActiveMQMessageAudit to have cache value for producers set for lower values
AMQ-4237	JMX ObjectNames do not follow JMX Best practices to use a Hierarchical format
AMQ-4241	ActiveMQOutputStream should reserve the user property only once
AMQ-4250	activemq-spring should not depend on spring-test at compile scope
AMQ-4253	Upgrade to Spring 3.1.3
AMQ-4279	deprecate udp transport
AMQ-4298	Add mutual authentication (needClientAuth) to https transport

Enhancement	Description
AMQ-4303	Health status MBean - Feeling ill
AMQ-4309	Add usage limit check when limit for destinations is present
AMQ-4360	Remove deprecated methods from activemq-pool
AMQ-4362	Broker-based redelivery plugin - support for <code>maximumRedeliveries="-1"</code>
AMQ-4414	Combine windows and unix distros
AMQ-4418	Make web apps (demos, rest api, etc) running in Karaf
AMQ-4119	Add memory usage <code>*count*</code> to destination MBean for better detection of memory leaks
AMQ-4121	Expose <code>Destination.setMemoryUsage</code> so that custom policies can override default <code>MemoryUsage</code> (e.g., to specify message count limits)
AMQ-4144	When used in a message selector, the <code>JMSDeliveryMode</code> header field should be treated as having the values 'PERSISTENT' and 'NON_PERSISTENT'
AMQ-4146	String properties in JMS selector expression should not get auto converted to numbers per spec
AMQ-4162	Provide JMX visibility into options applied via destination name query parameters
AMQ-4191	Have a <code>getHappyStatus()</code> method on the <code>BrokerViewMBean</code> so that tools can enquire on the happy status of a broker to see early warning signs of things that could be bad
AMQ-4200	STOMP 1.1 Over WebSocket
AMQ-4219	Expose ActiveMQ JMX interface via REST API using Jolokia
AMQ-4305	Support destination lookup by JNDI name in resource adapter

Enhancement	Description
AMQ-4426	Allow <code>XAPooledConnectionFactory</code> to be used from <code>ee</code> (implement <code>ObjectFactory</code> , <code>[Queue Topic]ConnectionFactory</code>)
AMQ-4054	Deprecate axis support and remove it in AMQ 5.8
AMQ-4056	Remove <code>activemq-jmdns</code> module
AMQ-4163	Remove old cruft from <code>activemq-camel</code> component such as the <code>kaha journal</code> component
AMQ-4206	<code>HawtBuf</code> lib in assembly is put into <code>/extra</code> folder when it's not optional
AMQ-4228	implement/investigate persistent producer audit for <code>leveldb</code> store
AMQ-4238	Check AMQ JMX connector code if having same issue as <code>CAMEL-5907</code>
AMQ-4252	Make OSGi JARs fully optional
AMQ-4256	Upgrade to OSGi 4.3.0
AMQ-4257	Upgrade to Aries 1.0
AMQ-4280	Rename module <code>activemq-core</code>
AMQ-4341	<code>activemq-broker</code> feature can not be installed when <code>OBR</code> is enabled
AMQ-4412	align <code>jackson</code> version with <code>Camel</code>
ENTMQ-63	Broker and web console security
MB-1116	Dynamic Failover Host Name Resolver
MB-1157	Support for more sophisticated redelivery semantics
MB-1195	reduce <code>maxRows</code> default value from 10,000 to a lower value like 200 in <code>JDBC</code> persistence adapter
MB-1257	Don't restart the network bridge on race condition where respondent sends to a temp dest that has just been deleted

Enhancement	Description
MB-835	Reduce the number of KahaProducerAuditCommand entries in the KahaDB journal
ENTMQ-155	mq-client should contain mq-fabric
ENTMQ-185	org.fusesource.fabric.itests.paxexam.mq.MQProfileTest
ENTMQ-206	Add camel route to xml config in pax-exam-tests for mqdistro test
ENTMQ-219	Update doc links to point to Customer Portal
ENTMQ-229	Remove the '-' from the start script (bin//a-mq -> bin/amq) and reference in doc and readme
ENTMQ-231	Create an a-mq fabric profile that mirrors the out-of-box config of the a-mq distro
ENTMQ-251	use admin/admin as default username/password for org.apache.activemq.webconsole.cfg

CONTAINER

Table 3.2, “Container Enhancements in 6.0” lists the enhancements between Fuse MQ Enterprise 7.1 and 6.0.

Table 3.2. Container Enhancements in 6.0

Enhancement	Description
KARAF-1951	Remove workaround for KARAF-1117
KARAF-2223	Update to pax url 1.3.6
KARAF-1572	Add SQL Server Support for JDBC Lock
KARAF-1798	Use exam framework for our itests and increase tests coverage
KARAF-2105	Karaf features for Spring should all be same name and use version ranges
KARAF-1910	Provide Spring 3.1.2.RELEASE features

Enhancement	Description
KARAF-2050	Ability to configure ssh session idle timeout - currently hardcoded as 5 minutes
FELIX-3344	Filter parsing treats ** as invalid syntax
FELIX-3553	Use of parallel class loading capability of JDK7
FELIX-3807	Refreshing bundles should first grab all the bundle locks to avoid concurrent modifications of those bundles
FELIX-3808	Upgrade ConfigAdmin to pax-exam 2
ENTESB-529	endorse stax-api spec jar
ENTESB-539	remove geronimo-servlet_2.5 bundle from servicemix-http feature
ENTESB-506	Add a pojoser unit test to validate that we can use OSGI Config Admin with value encrypted
ENTESB-542	Upgrade to Pax Logging 1.7.1 when available
ENTESB-622	JBoss FUSE 6 should use fuse side aries jpa module
ENTESB-641	maven-dependency-plugin upgrade

FUSE FABRIC

Table 3.3, “Fabric Enhancements in 6.0” lists the enhancements between Fuse MQ Enterprise 7.1 and 6.0.

Table 3.3. Fabric Enhancements in 6.0

Enhancement	Description
FABRIC-377	Create a command for profiles to pick up new versions
FABRIC-387	Allow fabric agent and maven proxy to retrieve repos from maven settings.xml
FABRIC-391	Unable to create child container on remote root container using oracle JDK 7 on linux
FABRIC-394	Fabric ensemble should not be versioned

Enhancement	Description
FABRIC-406	Add some validation to container-add-profile so it doesn't allow spaces in profile names
FABRIC-409	Revisit CXF example and integration tests
FABRIC-419	Ability to Create Root Container on the Local Host
FABRIC-421	fabric-cxf FabricLoadBalancerFeature should support to configure the options of the zookeeper client
FABRIC-360	Allow editing of znodes and profile in a text editor

MANAGEMENT CONSOLE

Table 3.4, “Enhancements in 6.0” lists the enhancements between Fuse MQ Enterprise 7.1 and 6.0.

Table 3.4. Enhancements in 6.0

Enhancement	Description
FMC-444	Add field to specify imported version name and allow an existing version to be overwritten

CHAPTER 4. APACHE DEPENDENCIES

The following Apache projects are used in 6.0:

Apache ActiveMQ

Red Hat JBoss A-MQ is based on Apache ActiveMQ 5.8

Apache Karaf

Red Hat JBoss A-MQ includes Apache Karaf 2.3