



Red Hat AMQ 6.3

Release Notes

What's new in Red Hat AMQ

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What's new in Red Hat AMQ

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Abstract

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

Table of Contents

CHAPTER 1. WHAT'S NEW	3
1.1. NEW FEATURES IN RED HAT AMQ 6.3	3
1.2. TECHNOLOGY PREVIEW FEATURES	3
1.3. IMPORTANT NOTES	3
CHAPTER 2. DEPRECATED AND REMOVED FEATURES	5
OPENWIRE JMS IS THE ONLY OPENWIRE CLIENT THAT WILL CONTINUE TO BE SUPPORTED IN THE NEXT MAJOR RELEASE OF AMQ	5
SUPPORT FOR KAHADB AND LEVELDB WILL BE DROPPED IN THE NEXT MAJOR RELEASE OF AMQ	5
THE IMPLEMENTATION OF THE JDBC PERSISTENCE ADAPTER WILL CHANGE IN THE NEXT MAJOR RELEASE OF AMQ	5
SUPPORT FOR APACHE KARAF (OSGI) CONTAINER WILL BE DROPPED IN THE NEXT MAJOR RELEASE OF AMQ	5
SUPPORT FOR FABRIC8 1.X WILL BE DROPPED IN THE NEXT MAJOR RELEASE OF AMQ	5
BIN/DELETEFABRIC8 SCRIPT HAS BEEN REMOVED	5
TANUKI BASED WRAPPER FOR INSTALLING AMQ AS A SERVICE IS DEPRECATED	5
BIN/PATCH SCRIPT IS DEPRECATED	6
SPRING DYNAMIC MODULES (SPRING-DM) IS DEPRECATED	6
REST API IS NOT SUPPORTED	6
CHAPTER 3. KNOWN ISSUES	7
3.1. LIST OF KNOWN ISSUES IN AMQ 6.3	7
CHAPTER 4. RESOLVED ISSUES	10
4.1. MESSAGING - 6.3.0	10
4.2. CONTAINER - 6.3.0	16
4.3. FUSE FABRIC - 6.3.0	20
4.4. MANAGEMENT CONSOLE - 6.3.0	28
4.5. OPENSIFT ENTERPRISE CARTRIDGES - 6.3.0	32
CHAPTER 5. ENHANCEMENTS	34
5.1. MESSAGING - 6.3.0	34
5.2. CONTAINER - 6.3.0	36
5.3. FUSE FABRIC - 6.3.0	38
5.4. MANAGEMENT CONSOLE - 6.3.0	40
CHAPTER 6. SUPPORTED CONFIGURATIONS	41
6.1. INFORMATION ON THE CUSTOMER PORTAL	41

CHAPTER 1. WHAT'S NEW

Abstract

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

1.1. NEW FEATURES IN RED HAT AMQ 6.3

The primary aim of the AMQ 6.3 release has been stabilisation. There are many bug fixes, but no major new features in this release.

1.2. TECHNOLOGY PREVIEW FEATURES

The following features are provided as technical previews only in version 6.3, and are not suitable for production environments. For details on what "technical preview" means, see <https://access.redhat.com/support/offerings/techpreview/>.

- Replicated LevelDB store. See [chapter "Using the Replicated LevelDB Persistence Adapter" in "Configuring Broker Persistence"](#) for more details.

1.3. IMPORTANT NOTES

New Maven repository

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

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

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



NOTE

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

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

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

Upgraded Jetty from 8.1.x to 9

In the Apache Karaf container, Jetty (which provides the default HTTP servlet container for Karaf) has

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

CHAPTER 2. DEPRECATED AND REMOVED FEATURES

OPENWIRE JMS IS THE ONLY OPENWIRE CLIENT THAT WILL CONTINUE TO BE SUPPORTED IN THE NEXT MAJOR RELEASE OF AMQ

In the next major release of AMQ (AMQ 7.0), support for most of the OpenWire clients will be dropped. The only OpenWire client that will continue to be supported is OpenWire JMS.

SUPPORT FOR KAHADB AND LEVELDB WILL BE DROPPED IN THE NEXT MAJOR RELEASE OF AMQ

In the next major release of AMQ (AMQ 7.0), both the KahaDB message store and the LevelDB message store will be dropped. JBoss AMQ 7 has its own message store implementation and data model.

THE IMPLEMENTATION OF THE JDBC PERSISTENCE ADAPTER WILL CHANGE IN THE NEXT MAJOR RELEASE OF AMQ

While JBoss AMQ 7 will support a JDBC adapter, the AMQ 6.x JDBC adapter will not be supported on JBoss AMQ 7. A new JDBC store will need to be created.

SUPPORT FOR APACHE KARAF (OSGI) CONTAINER WILL BE DROPPED IN THE NEXT MAJOR RELEASE OF AMQ

In the next major release of AMQ (AMQ 7.0), the Apache Karaf (OSGi) container will be dropped. AMQ 7.0 will be packaged as a standalone application, without any container technology.

SUPPORT FOR FABRIC8 1.X WILL BE DROPPED IN THE NEXT MAJOR RELEASE OF AMQ

In the next major release of AMQ (planned as AMQ 7.0), Fabric8 version 1 will be dropped, to be replaced by Fabric8 version 2. The Fabric8 version 2 upgrade is a new generation of distributed container technology that is entirely cloud-based and leverages the OpenShift technology stack to provide the foundation for containerized AMQ applications.

BIN/DELETEFABRIC8 SCRIPT HAS BEEN REMOVED

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

TANUKI BASED WRAPPER FOR INSTALLING AMQ AS A SERVICE IS DEPRECATED

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

BIN/PATCH SCRIPT IS DEPRECATED

The **bin/patch** script (**bin\patch.bat** on Windows O/S) is deprecated and will be removed in a future release.

SPRING DYNAMIC MODULES (SPRING-DM) IS DEPRECATED

Spring-DM (which integrates Spring XML with the OSGi service layer) is deprecated since 6.2.1 and you should use the Blueprint framework instead. Using Blueprint does not prevent you from using the Java libraries from the Spring framework: the latest version of Spring is compatible with Blueprint.

REST API IS NOT SUPPORTED

REST API is *not* supported in AMQ 6.x and never has been. The REST API described in the Apache ActiveMQ community documentation, <http://activemq.apache.org/rest.html>, is only a demonstration, not a fully-developed feature. It cannot be used with AMQ 6.x and has multiple gaps in its functionality that make it unsuitable for production use.

CHAPTER 3. KNOWN ISSUES

3.1. LIST OF KNOWN ISSUES IN AMQ 6.3

The following list describes known issues in version 6.3:

[[ENTMQ-1962](#) and [ENTMQ-2061](#)] Missing bin/contrib scripts in A-MQ distro

The AMQ GA distribution is missing **bin/contrib** scripts (for installing the broker as a service). The missing scripts have been made available in the rollup patch AMQ 6.3.0R1 and all subsequent rollup patches.

[[ENTMQ-1709](#)] Missing kahaDB journal after broker failover in fabric8

When a master/slave broker with shared storage fails (unclean shutdown) it can cause a missing kahaDB journal. The issue was originally reported in a Fabric8 environment, but it also affects standalone Fuse instances. You can work around this issue by setting **ignoreMissingJournalfiles=true** in the kahaDB configuration. Without this setting the broker would refuse to start after failure, if it detects a missing journal.

[[ENTMQ-1933](#)] Missing journal files after upgrading to 6.2.1 R2

When upgrading to 6.3, the message broker might report a missing journal files error in the KahaDB store. If you encounter this error, stop and restart the broker (thus forcing the index to rebuild). This issue occurs because of some additional checks we put in place for the KahaDB store.

[[ENTMQ-1909](#)] C++ client subscription on topic is receiving only the first message sent

When the subscriber to a topic is a Qpid C++ client, the client receives only the first message sent. This issue is a regression in 6.3 and will be fixed in an upcoming patch.

[[ENTMQ-1504](#)] [A-MQ, broker] disableAsyncDispatch="true" on transport connector appear to cause a thread deadlock

Do not set the option **disableAsyncDispatch="true"**, as this can lead to a deadlock condition.

[[ENTESB-7789](#)] Upgrade qpid-jms-client Version Used By camel-amqp

The new **qpid-jms-client** is supported in FUSE 6.3 on only JDK 1.8.

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

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

```
JBossFuse:karaf@root> profile-import file:C:/jboss-fuse-6.3.0.redhat-069/out.zip
```

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

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

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

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

```
admin:create --featureURL mvn:io.fabric8.patch/patch-features/1.2.0.redhat-630187/xml/features -
-feature patch test
```

Where 1.2.0.redhat-630187 might need to be replaced by whatever version of fabric8 you are using in your container.

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

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

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

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

[[ENTESB-4408](#)] Patching functionality in Fuse Management Console (Hawtio) temporarily disabled

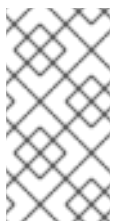
The patching functionality in the Fuse Management Console (Hawtio) has been disabled since AMQ 6.2.1. This is because the Hawtio UI has not been updated to use the new patching mechanism. To install Fabric patches, use the Karaf console instead. This issue will be fixed in a future release.

[[ENTESB-3938](#)] AMQ 6.2.1 takes a long time to start up on OpenStack

When a AMQ 6.2.1 container is deployed on RHEL Openstack Platform, it can take a long time (several minutes) for the container to start up. A workaround is to add the following option to the JVM that starts the container (for example, by setting the **JAVA_OPTS** environment variable):

```
-Djava.security.egd=file:/dev/./urandom
```

The extra dot in the pathname, as in `./`, is required.



NOTE

The effect of the workaround is to replace the default `/dev/random` by `/dev/urandom`. The alternative is faster, but less random than `/dev/random`. This has an impact on any security packages that depend on this device to generate entropy and random numbers.

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

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

[[ENTESB-3192](#)] Client session is dropped after fabric:create

The Client session is dropped after **fabric:create** is run. The workaround is to reconnect to the karaf console after fabric is created.

[[ENTESB-3039](#)] [HTTP Gateway] apis mapping rules don't work right after deployment

If the **zooKeeperPath** property in the **io.fabric8.gateway.http.mapping-apis.properties** is changed, a gateway node restart will be required.

[[ENTESB-2924](#)] Insight - Elasticsearch: JsonPretty error: Unable to get property 'toLowerCase' of undefined or null reference (:7999:6)

Insight Elasticsearch page is not supported in IE. The error occurs when clicking rectangles with numbers at Insight - Elasticsearch page.

[[ENTESB-2773](#)] [platform AIX HPUX] camel-leveldb missing native library

The **camel-leveldb** feature is *not* supported on IBM AIX, HP-UX, and Oracle Solaris operating systems.

[[ENTESB-2513](#)] OSE Fuse JVM sometimes dies with SIGABRT

RHEL customers need to upgrade openjdk to java-1.7.0-openjdk-1.7.0.79-2.5.5.3.el6_6 or later which will fix the **SIGABRT**.

[[ENTESB-2069](#)] Container which is created from Hawtio can not start if restarting openshift node

After restarting OpenShift, containers created from Hawtio cannot be started. This happens because the containers started before the ZooKeeper starts running will fail to start. The workaround is to wait for the start and keep restarting until we get connected to ZooKeeper.

[[ENTESB-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).

[[Bug 1275786](#)] Missing nss-devel dependency on Client and ComputeNode variants

The Qpid C++ client cannot be compiled from sources through the Client or ComputeNode channels on Red Hat Enterprise Linux (RHEL) 6 (due to a missing dependency on the package, **nss-devel**). In order to compile from sources, it is recommended that you install the Qpid C++ client through the Server channel instead.

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

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

CHAPTER 4. RESOLVED ISSUES

4.1. MESSAGING - 6.3.0

Table 4.1, "Messaging Issues Resolved in 6.3.0" lists the issues resolved in version 6.3.0.

Table 4.1. Messaging Issues Resolved in 6.3.0

Issue Number	Description
AMQ-5854	Duplicate messages when failover is done during prepare phase of two phase commit.
AMQ-5856	allowLinkStealing option is not working when using mqtt over websocket
AMQ-5857	Message content stored twice while sending
AMQ-5865	Enable "getRemoteAddress()" method in WebSocket Requests
AMQ-5870	Lazy create if MQTTProtocolConverter in the WebSocket transport needs to be thread safe
AMQ-5875	Removing a destination when using mKahaDB can cause an IllegalStateException
AMQ-5890	AMQP: possible NPE when handling disposition with Modified state
AMQ-5891	AMQP: update to proton-j 0.10
AMQ-5895	FilteredDestinations do not work when loaded by runtimeConfigurationPlugin
AMQ-5903	Message headers are lost when using the Broker Component for Camel
AMQ-5914	Pull consumer hang when message expires in flight.
AMQ-5933	NullPointerException in SelectorAwareVirtualTopicInterceptor
AMQ-5972	Policy entries not applied in correct order
AMQ-6000	Pause/resume feature of ActiveMQ not resuming properly
AMQ-6005	Slave broker startup corrupts shared PList storage
AMQ-6013	Restrict classes that can be serialized in ObjectMessages
AMQ-6014	Offline Durable Topic Subscription exceeds memory limits
AMQ-6029	wss transport don't work with certificate authentication properly

Issue Number	Description
AMQ-6031	AMQP: use System.nanoTime() when deriving time to tick the transport with for idle-timeout handling
AMQ-6046	Concurrent access to a Transport from WebSocket client can deadlock
AMQ-6055	SASL PLAIN auth with AMQP doesn't take authzid into account
AMQ-6059	DLQ message lost after broker restarts
AMQ-6060	"Will message" retain property is not respected
AMQ-6065	Allow selective use of broker systemExitOnShutdown from DefaultIOExceptionHandler
AMQ-6066	Performance issue in OrderedPendingList
AMQ-6068	RAR - cannot reset clientId on pooled managed connection
AMQ-6069	Purging a Queue can lead to OOM error with prioritized messages
AMQ-6070	originalDestination property of advisory messages set to message id in error
AMQ-6071	Log info about corrupted journal records at WARN level
AMQ-6073	WebSockets no longer working on most browsers
AMQ-6074	AMQ4126Test#testOpenwireNIOSSLWithCertificate fails with JDK8
AMQ-6083	Broker starts on corrupted kahadb despite checkForCorruptJournalFiles="true" and ignoreMissingJournalfiles="false"
AMQ-6086	Broker stop and start are not at all thread safe - we can do better
AMQ-6088	Runtime configuration does not properly apply policy updates
AMQ-6094	Memory Leak with abnormal disconnecting consumers
AMQ-6102	JMX SubscriptionViewMBean reset statistics method doesn't reset
AMQ-6113	Add the X-Frame-Options" header for the WebConsole
AMQ-6121	Messages can continually expire from DLQ and back
AMQ-6122	Potential Deadlock when a duplicate message is read from the store for the DLQ destination

Issue Number	Description
AMQ-6124	failover backup transports do not update the brokerInfo leaving stale org.apache.activemq.ActiveMQConnection#getBrokerName
AMQ-6125	Potential NPE in session rollback if no default redelivery policy configured
AMQ-6128	browsing priority queue can return messages in different order than they will be consumed
AMQ-6131	Durable subscription rewrite in journal can be too aggressive and cause message loss on recovery
AMQ-6133	Message updates can cause message loss on recovery
AMQ-6137	Special escape characters in LIKE selectors do not work as expected
AMQ-6142	ActiveMQBytesMessage decompress throws DataFormatException incorrect header check
AMQ-6146	Use proper JSTL tags in the WebConsole
AMQ-6151	Redelivered messages bypass priority ordering
AMQ-6152	KahaDB scheduler log files not being deleted
AMQ-6168	STOMP: Connection should be closed on receiving an invalid STOMP Frame with unknown action value.
AMQ-6169	STOMP: Invalid frames are logged in warn messages
AMQ-6170	X-Frame-Options are not set for static content
AMQ-6171	legal colon in broker name breaks vm transport
AMQ-6183	Provide the DispatchAsync value on Subscriptions to the SubscriptionViewMBean
AMQ-6194	Deleting a temporary queue creates a warning message in the broker
AMQ-6199	cursorMemoryHighWaterMark configuration not applied to topic subscription
AMQ-6206	properties in stomp non persistent messages are not reflected in the message size used for usage tracking
AMQ-6207	KahaDB: corruption of the index possible on sudden stop of the broker
AMQ-6208	The connector's jmx attribute UpdateClusterClients is not correct

Issue Number	Description
AMQ-6211	Synchronize creating of JMX OpenType objects
AMQ-6214	JAAS bug that causes user group membership not reloaded dynamically when reload is true
AMQ-6215	priority message dispatch can be affected by jms browser or expiry processing paging messages in error
AMQ-6218	Message content returns null occasionally from Virtual Topic to the consumer
AMQ-6221	ActiveMQTextMessage should synchronize on state changes
AMQ-6222	Message content can be cleared by mistake when isReduceMemoryFootprint is enabled
AMQ-6235	SimpleDiscoveryAgent doesn't honor it's configured initialReconnectDelay
AMQ-6240	Producer cannot be terminated when slow consumer is detected
AMQ-6246	STOMP: Unprefixed composite destination values not properly parsed
AMQ-6248	Failover - transport connected to one broker fails due to error in connection to another broker
AMQ-6250	MultiKahaDBTransactionStore should have null protection in close
AMQ-6254	Durable wildcard subscription causes memory leak after broker restart
AMQ-6256	ConcurrentStoreAndDispatch can lead to inconsistent message states using VM Transport
AMQ-6263	AMQP: Using JMS Transformer, preserve the type of the original MessageID
AMQ-6264	Deadlock on destination map - slow topic sub with slowConsumerAdvisory
AMQ-6275	Error when using ws transport connector
AMQ-6285	MessageDatabase doesn't properly cleanup the checkpoint scheduler on shutdown
AMQ-6286	Queue order lost on repeated redelivery
AMQ-6288	Message ack compaction needs to acquire the checkpoint lock
AMQ-6290	JMS Pool reconnection logic not always reliable
AMQ-6303	Message ack rewrite does not always set the right journal file type code

Issue Number	Description
AMQ-6305	AMQP: Drain requests can go unanswered in certain cases.
AMQ-6317	ActiveMQ createSchemaStatements are not executed on init if a previous createSchemaStatement failed on execution
AMQ-6340	Queue order lost on consumer close in some cases
AMQ-6350	PooledConnectionFactory throws 'IllegalStateException: Pool not open' after re-init
AMQ-6361	Message can remain in flight after consumer side expiration acknowledgements
AMQ-6370	JDBC message store - jdbc connection pool - potential deadlock with cleanup task when pool exhausted
AMQ-6372	KahaDB reader pool not releasing unused open files till deletion - too many open files
AMQ-6376	IOException on pageIn should involve IOExceptionHandler
AMQ-6378	KahaDb recover from corrupt metadata state locations that can be rebuilt
AMQ-6389	LoggingBrokerPlugin logs a message size equal to 0
AMQ-6392	Allow host name mapping with publishedAddressPolicy on a transportConnector
AMQ-6406	kahadb concurrentStoreAndDispatch - duplicate suppression in cursor needs to wait for possible store add
AMQ-6413	kahadb concurrentStoreAndDispatch - producer audit managed by store is skipped
CAMEL-1022	DOT generator (Visualizer) - Doesn't handle that pipeline is default
COLLECTIONS-580	[COLLECTIONS-580] Arbitrary remote code execution with InvokerTransformer
ENTESB-4902	Fuse 6.2.1 failed to handle maven repository url with special characters like "@" for authentication parameters.
ENTESB-4957	missing package org.apache.geronimo.osgi.locator for features:install pax-*-tomcat
ENTESB-5647	Need to add MRRC earlyaccess repo
ENTESB-5818	Upgrade httpClient version to latest, at a minimum > 4.3.4
ENTESB-5872	Unable to send JSON/Object to activemq in Camel

Issue Number	Description
ENTESB-5935	intermittent ServerModel LinkageError when connecting to ssh container
ENTMQ-1160	When ActiveMQ encountered exception during rollback, the message is stuck instead of retry the rollback.
ENTMQ-1180	Offline Durable Topic Subscription exceeds memory limits
ENTMQ-1419	Second connection request with Durable subscriber throws "Setting clientID on a used Connection is not allowed"
ENTMQ-1421	Broker starts on corrupted kahadb despite checkForCorruptJournalFiles="true" and ignoreMissingJournalfiles="false"
ENTMQ-1426	originalDestination property of advisory messages set to message id in error
ENTMQ-1428	AMQ4126Test#testOpenwireNIOSSLWithCertificate fails with JDK8
ENTMQ-1434	StompSubscriptionRemoveTest hangs on Solaris with JDK8
ENTMQ-1484	Implementation of AMQ-6077 in Fuse 6.2.1 is incomplete
ENTMQ-1517	The jboss-a-mq-6.3.0.redhat-012.zip does not startup properly
ENTMQ-1584	Threads Blocked On ActiveMQConnection.ensureConnectionInfoSent
ENTMQ-1656	Enable configuration for mqtt-over-ws transport
ENTMQ-1681	Issue with message ordering after transaction rollback
ENTMQ-1683	*:help missing descriptions for activemq commands
ENTMQ-1708	The connection to 'tcp://...' is taking a long time to shutdown
ENTMQ-1791	Regression in from ENTMQ-703 leads to metrics issue for temp transactional queues
ENTMQ-1822	Broker Unable To Recover After Exceeding File Descriptor Limit
ENTMQ-1823	Two clustered A-MQ nodes using JDBC Persistent Adaptor and lease database locker were active the same time
ZOOKEEPER-2380	[ZOOKEEPER-2380] Deadlock between leader shutdown and forwarding ACK to the leader
ZOOKEEPER-2383	[ZOOKEEPER-2383] Startup race in ZooKeeperServer

4.2. CONTAINER - 6.3.0

Table 4.2, "Container Issues Resolved in 6.3.0" lists the issues resolved in version 6.3.0.

Table 4.2. Container Issues Resolved in 6.3.0

Issue Number	Description
COLLECTIONS-580	[COLLECTIONS-580] Arbitrary remote code execution with InvokerTransformer
ENTESB-1609	Can not install fuse as system service on AIX7.1
ENTESB-3997	admin:create && admin:start doesn't work after 6.2 P2 patch
ENTESB-4055	Improve Hawt.io Performance
ENTESB-4156	On Windows offline patching causes "javax.management.InstanceAlreadyExistsException: org.fusesource.insight:type=Log Query"
ENTESB-4223	Feature camel-spring security does not install spring-security-config bundle
ENTESB-4231	Unable to unzip RC4 prepached zip on windows 2012 RC4
ENTESB-4398	Arbitrary remote code execution with InvokerTransformer
ENTESB-4443	null log msg causes org.apache.felix.eventadmin.impl.adapter.LogEventAdapter to be removed
ENTESB-4447	Incompatible TypedQuery exception is thrown when application(Using JPA-Hibernate) bundle is refreshed/re-installed
ENTESB-4450	admin:connect default username is not the sme as admin:create
ENTESB-4458	bin\client.bat doesn't work on windows
ENTESB-4495	Hibernate and Bundle ClassLoaders out of sync on Bundle Refresh
ENTESB-4616	Space in path results in bin/karaf: line 417: [: /home/fuse/te: binary operator expected
ENTESB-4742	Default "org.osgi.framework.system.packages.extra" configuration should be empty
ENTESB-4838	Camel on EAP bundles Spring version other than Karaf
ENTESB-4886	6.2.1 Patching mechanism should support applying rollup patch to non-fabric child containers
ENTESB-4889	Xslt Transformation seems to be broken in Fuse 6.2.1

Issue Number	Description
ENTESB-4902	Fuse 6.2.1 failed to handle maven repository url with special characters like "@" for authentication parameters.
ENTESB-4903	[Solaris 11] local: not found when starting fuse
ENTESB-4921	problem with installing / uninstalling features in fuse 6.3
ENTESB-4935	admin script report wrong pid and wrong status
ENTESB-4954	can't install feature camel-spring-redis
ENTESB-4955	deltaspikes-* features can't be installed (versions 1.3.0 or 1.5.1)
ENTESB-4957	missing package org.apache.geronimo.osgi.locator for features:install pax-*-tomcat
ENTESB-4960	ssh:sshd command lists default values twice
ENTESB-4967	Karaf Wrapper fails if Path to KARAF_HOME Contains Spaces
ENTESB-4980	[Karaf-service] Karaf-service.sh script does nothing on Debian (in docker)
ENTESB-4997	redirect parent and child instance std out to a karaf.out file
ENTESB-4999	Apply the same logic of ENTESB-4935 to karaf.bat script
ENTESB-5003	[Win+Karaf-service] Can't run .exe on win server 2012r2
ENTESB-5015	Aries JPA unable inject jpa context in blueprint
ENTESB-5045	[Karaf-service.sh] Not working on AIX and HP-UX
ENTESB-5058	6.3.0 DR2 doesn't start on Windows
ENTESB-5065	localhost:8181/hawtio/index.html not available (404)
ENTESB-5067	"The syntax of the command is incorrect" error when running "shutdown -f"
ENTESB-5104	In JBoss Fuse shell, when running grep, there will be 3 ANSI reset sequence on each line.
ENTESB-5118	Invalid BundleContext when installing patch feature to admin:created container
ENTESB-5131	[6.3] Can't start fuse on solaris 10
ENTESB-5132	[6.3] Solaris 10 does not like a first empty row in the service file

Issue Number	Description
ENTESB-5157	Not able to login when user belongs to jaas PublickeyLoginModule.
ENTESB-5179	Maven proxy behavior broken
ENTESB-5191	Apparent mismatch between command count with tab completion
ENTESB-5217	Feature Installation - no Refresh of Fragment-Host bundle upon installation of fragment bundle
ENTESB-5323	javax.management.openmbean.KeyAlreadyExistsException thrown by hawtio-osgi-jmx
ENTESB-5332	Fuse doesn't start after unexpected termination
ENTESB-5366	Fuse client fails with java.security.InvalidAlgorithmParameterException
ENTESB-5370	Aries transaction manager fails with background connection validation
ENTESB-5395	Wildcard in NCName for Camel CXF Transport in Blueprint
ENTESB-5399	Fuse on windows does not start without data directory
ENTESB-5401	fix pax-http-tomcat jaxp-api dependencies
ENTESB-5410	please fix duplicate javax.mail in fuse
ENTESB-5540	Exceptions in log after *:help - Service cannot be cast: org.apache.felix.scr.impl.ScrGogoCommand
ENTESB-5550	Bundle "spring-security-config" from servicemix does not contain spring metadata
ENTESB-5588	Switchyard reference throws ClassCastException with IBM java
ENTESB-5608	Revert hard coded v1.7 jdk for darwin in karaf launch script introduced via KARAF-2921
ENTESB-5620	wrapper:install on solaris11 lacks instructions to symlink scripts
ENTESB-5647	Need to add MRRC earlyaccess repo
ENTESB-5683	get Exception when enter "tab" from karaf console
ENTESB-5700	[fabric:create] Error executing command: Unable to create zookeeper server configuration
ENTESB-5716	Can't create child on 111, 115
ENTESB-5760	Can't create child on ssh container

Issue Number	Description
ENTESB-5762	Can't resolve any of the quickstarts in build #125
ENTESB-5792	We are not properly replacing versions in client.bat in jboss-fuse-6.3.0.redhat-131
ENTESB-5795	ldap connection pool not created when using ssl (ldaps)
ENTESB-5850	javax.management.openmbean.KeyAlreadyExistsException thrown at JMX org.apache.karaf - services
ENTESB-5860	Camel-amq quickstart is not processing files
ENTESB-5869	Exception when Encrypting with PGPDDataFormat
ENTESB-5917	6.2.1 R3 prevents base DN lookup in Tivoli LDAP Server
ENTESB-5935	intermittent ServerModel LinkageError when connecting to ssh container
ENTESB-5942	karaf jaas modules test failing on IBM JDK
ENTESB-5961	hawtio not showing activemq tab
ENTESB-6101	Fuse won't start with IBM java
ENTMQ-1683	*:help missing descriptions for activemq commands
KARAF-3240	BundleWatcher should not depend to pax-url-mvn
KARAF-3327	Incorrect LC_CTYPE parsing
KARAF-4005	Different locations for KARAF_HOME and KARAF_BASE
KARAF-4024	role.policy "group" ceased to function
KARAF-4123	Provide a more dynamic default for serviceUrl configuration
KARAF-4150	bin/status fails if KARAF_DEBUG is set
KARAF-4247	Issues with LDAP caching
KARAF-4330	Instance script doesn't return correct PID number if root instance is started two times
KARAF-4348	[RBAC] Wildcard PIDs chosen before more specific ones
KARAF-4373	Karaf.bat script produces "The syntax of the command is incorrect" even if it is working properly

Issue Number	Description
KARAF-4499	Can't start a crashed server on Windows
KARAF-4607	ldap connection pool not created when using ssl (ldaps)
KARAF-4659	Ability to disable ldap listeners
KARAF-4686	ClassLoader leak with RmiRegistryFactory and sun.rmi.transport.tcp.TCPEndpoint
KARAF-4687	ClassLoader leak with java.lang.Exception and karaf.exception library

4.3. FUSE FABRIC - 6.3.0

Table 4.3, "Fuse Fabric Issues Resolved in 6.3.0" lists the issues resolved in version 6.3.0.

Table 4.3. Fuse Fabric Issues Resolved in 6.3.0

Issue Number	Description
COLLECTIONS-580	[COLLECTIONS-580] Arbitrary remote code execution with InvokerTransformer
CURATOR-126	IllegalStateException in performBackgroundOperation during close
ENTESB-1769	"Error in initialization script: Command not found: shell:if" after fabric:create on fuse with P2
ENTESB-2699	EnsembleRemove.applyEnsembleConfiguration() Throws StringIndexOutOfBoundsException
ENTESB-3449	Profile-rename Error executing command: versionId when not specifying version
ENTESB-3945	Profile import in fabric results in Container 'root' does not exist
ENTESB-4012	profile-import and profile-refresh don't download the latest snapshot
ENTESB-4073	Creating fabric with profile fabric leads to duplicated profile
ENTESB-4138	JMX mbean operation `setProfileProperty` is not working as expected.
ENTESB-4167	fabric-git-server defaults to admin role and may only be associated with one role
ENTESB-4225	Unable to scale down using fabric:profile-scale command
ENTESB-4362	jgit errors affecting patch management

Issue Number	Description
ENTESB-4367	General patching problems on Windows
ENTESB-4369	Standby Fuse container in active/standby configuration does not expose an SSH service since 6.2
ENTESB-4374	Fabric - Services - MQ, Wiki: Patch branches are visible as versions
ENTESB-4387	[Patch mechanism] Command patch:fabric-synchronize has wrong description
ENTESB-4393	[Patch mechanism] Provision status freezes on installing when upgrading child container
ENTESB-4398	Arbitrary remote code execution with InvokerTransformer
ENTESB-4399	Insight: quickly and periodically refreshes Hawtio and throws errors on remote Fabric containers
ENTESB-4415	Multiple Error messages while updating JBoss A-MQ using new patch mechanism
ENTESB-4422	[Patch mechanism] Option --upload in command patch:fabric-install doesn't work on Windows
ENTESB-4431	[Patch mechanism] Unable to upgrade ssh container with build 073 (container doesn't start)
ENTESB-4432	[Patch mechanism] Cannot create child or ssh container after 6.2.0 to 073 migration in offline environment
ENTESB-4437	zk group - deal with partial creation of sequential node
ENTESB-4443	null log msg causes org.apache.felix.eventadmin.impl.adapter.LogEventAdapter to be removed
ENTESB-4451	[Patch mechanism] Upgrading child container reverts user.properties to karaf default version
ENTESB-4462	[Patch mechanism] Unable to rollback child container to 1.0 after upgrade
ENTESB-4469	NullPointerException during patch:install
ENTESB-4470	Invalid boolean value exception after rollback
ENTESB-4472	[Patch mechanism] Upgrading SSH container results into wrong merged system.properties and general problem with reconnecting to fabric
ENTESB-4474	patch 6.2 GA >> 621 build 73 >> build 078 fails on "auth" bundle on windows

Issue Number	Description
ENTESB-4482	[patching] patch:list shows patch as installed even-though installation failed with exception
ENTESB-4485	Provisioning containers fails with a java.lang.NullPointerException for Maven-URL
ENTESB-4489	Prevent hitting central.maven.org at Fabric creation
ENTESB-4491	[patching] NPE in bin/setenv resolver
ENTESB-4494	Fix Maven worrisome message about repos without ids
ENTESB-4496	NoNode for /fabric/registry/maven/proxy/download/p_0000000002
ENTESB-4497	[patching] Changes in org.ops4j.pax.logging.cfg do not propagate to newer version
ENTESB-4508	HTTP proxy does not work for osgi:install and profile artifact resolution at the same time
ENTESB-4574	HTTP Gateway and URL parameters
ENTESB-4610	Fabric gateway fails because of incorrect use of ShutdownTracker
ENTESB-4622	Please update file name from jboss-fuse-full to jboss-fuse-karaf
ENTESB-4694	[itests] ExampleCamelClusterTest fails in 6-3-x branch
ENTESB-4710	[itests] ExampleCamelCxfTest problems in 6-3-x branch
ENTESB-4742	Default "org.osgi.framework.system.packages.extra" configuration should be empty
ENTESB-4761	Transitive Dependency on org.osgi.core 4.1.0 Breaks Unit Tests
ENTESB-4770	fix swagger dependencies in Fuse BOM
ENTESB-4781	fabric8 6.3 build fails with missing pom for quickstarts
ENTESB-4796	Setting KARAF_DATA Results in Error When Creating Fabric
ENTESB-4808	[itests] ServiceFactoryTest.testZkDisconnectFastReconnect fails sometimes on 6-3-x
ENTESB-4816	[patching] Fix detection of fabric env when initializing patch management
ENTESB-4820	mvn fabric8:zip does not work for quickstart examples.
ENTESB-4827	[itests] ProfileManagementJolokiaTest/ProfileManagementProxyTest fail sometimes

Issue Number	Description
ENTESB-4834	"start-level" property in <feature> element and 'start="false"' in <bundle> element didn't work in Fuse 6.2.1
ENTESB-4841	Fabric8 - NullPointerException from GitDataStore when having hostname with underscore
ENTESB-4845	java.lang.ClassNotFoundException: net.sf.ehcache.distribution.RMICachePeer_Stub (no security manager: RMI class loader disabled)
ENTESB-4862	Hawtio-Viewing history on profile files throws exception
ENTESB-4886	6.2.1 Patching mechanism should support applying rollup patch to non-fabric child containers
ENTESB-4888	OSGi configurations to the feature does not work in fabric mode if config name contains "-" character.
ENTESB-4894	fabric:create command terminates a script
ENTESB-4902	Fuse 6.2.1 failed to handle maven repository url with special characters like "@" for authentication parameters.
ENTESB-4903	[Solaris 11] local: not found when starting fuse
ENTESB-4918	The fabric:profile-export Command Does Not Export Sub-folders or Specific Profiles
ENTESB-4939	When Creating a A Fabric with External Repo Configuration is Lost Unless Manually Edited in Files
ENTESB-4946	wiring chain issue with package javax.servlet.http
ENTESB-4956	Fabric8 HTTP gateway does not respond to container version changes without a restart
ENTESB-4957	missing package org.apache.geronimo.osgi.locator for features:install pax-*-tomcat
ENTESB-4970	Http gateway logs "listening at port 9000" before being unable to bind to that port.
ENTESB-4971	admin permission is added to first user in users.properties automatically by fabric:create command
ENTESB-4992	patch:add allows to add empty folder
ENTESB-4994	repeated Elasticsearch warning "Error executing request: MapperParsingException[failed to parse]; nested: JsonParseException[Non-standard token 'NaN': enable JsonParser.Feature.ALLOW_NON_NUMERIC_NUMBERS to allow]"
ENTESB-5003	[Win+Karaf-service] Can't run .exe on win server 2012r2

Issue Number	Description
ENTESB-5012	Unnecessary default values in help of some commands
ENTESB-5014	[6.3.015] Can't create SSH container
ENTESB-5022	Authentication Error when Adding Containers to Ensemble
ENTESB-5029	A fabric server generated by "fabric:container-create-ssh" with "--ensemble-server" option will record ERROR log during it's boot up phase
ENTESB-5034	container-edit-jvm-options can not delete a jvm option and it also duplicates all "-D" options
ENTESB-5060	fabric:create causes java.lang.NullPointerException
ENTESB-5065	localhost:8181/hawtio/index.html not available (404)
ENTESB-5075	Fabric - issue with external git repo and provisioning
ENTESB-5085	Patch commands are only available with Fabric container provisioned with the jboss-fuse-full profile
ENTESB-5105	Some profiles in fabric doesn't work out of the box in Fuse running in offline env
ENTESB-5107	Cannot create fabric with user as member as Administrator group via bin/client script
ENTESB-5109	fabric:join command should display a message if container is already connected to fabric
ENTESB-5119	Problem with authentication when creating fabric
ENTESB-5120	[patching] Patching admin:created container causes that all previously installed features are removed
ENTESB-5124	cxfr/rest quickstart "mvn -Ptest" fails
ENTESB-5138	[patching] patch:fabric-install removes previously added features from default profile
ENTESB-5172	Unable to install cxfr-secure-rest quickstart
ENTESB-5174	WARN from jetty happens very regular
ENTESB-5175	All containers have to run while executing fabric:wait-for-provisioning
ENTESB-5179	Maven proxy behavior broken
ENTESB-5186	container-stop operation may report wrong outcome

Issue Number	Description
ENTESB-5191	Apparent mismatch between command count with tab completion
ENTESB-5206	"Client is not started" Exception
ENTESB-5213	Bump licence headers to 2016
ENTESB-5225	fabric:container-delete command does not display an appropriate message
ENTESB-5228	[Fabric] Support empty passwords in external git repos
ENTESB-5242	Patch:show command throws NPE in case of inexistent patch
ENTESB-5253	Profile update via git results in CheckoutConflictException
ENTESB-5254	Container-create-ssh does not respect --new-user and --new-user-password
ENTESB-5257	jsr311-api bundle not included in the distro
ENTESB-5298	profile-export does not export profiles
ENTESB-5361	Container-delete does not fail when the credentials are invalid
ENTESB-5395	Wildcard in NCName for Camel CXF Transport in Blueprint
ENTESB-5396	[patching] Upgrade of container is overriding profile properties
ENTESB-5400	ChildContainers don't have correct RBAC configuration.
ENTESB-5402	SSHContainers don't have correct RBAC configuration.
ENTESB-5424	Pushing invalid branch name to fabric git breaks version-list
ENTESB-5433	Fabric8 Maven Plugin with Multi-module Maven projects only append last module to the bundle list of the created profile on Jboss Fuse 6.2.1.
ENTESB-5437	Fabric HTTP GW does not recognize query params
ENTESB-5443	fabric8 jboss-fuse-full profile is missing some ACL entries for fabric:* commands
ENTESB-5448	camel-cxf-contract-first building fails with ibm1.8 java
ENTESB-5453	beginner/camel-log example uses invalid timer value
ENTESB-5456	java.lang.NullPointerException at io.fabric8.insight.elasticsearch.plugin.InsightIndicesHousekeeperService

Issue Number	Description
ENTESB-5461	profile-refresh command does not update the content of added features.xml
ENTESB-5463	Creating version with invalid name responds with Profile name is invalid
ENTESB-5475	Missing javax.mail jar with the correct version
ENTESB-5478	Downloading of artifacts is frozen due to some file locks in local repository
ENTESB-5488	SSH container cannot resolve SNAPSHOT artifacts uploaded to fabric
ENTESB-5490	fabric:profile-refresh is deleting the folder under the profiles.
ENTESB-5492	[patching] handle overrides.properties better
ENTESB-5513	Fabric maven proxy is not reachable by agent
ENTESB-5517	[patching] allow patch descriptor files starting with jboss-fuse- or jboss-a-mq- name
ENTESB-5562	fabric:create should validate the value passed to "resolver" param
ENTESB-5591	Fabric git pushes rejected due to non fast forward
ENTESB-5619	[itests] ARQ/pax-exam tests affected by package refresh
ENTESB-5633	[patching] Problems upgrading pax-cdi, pax-web, jclouds features
ENTESB-5634	[patching] Migrate serialized container metadata during patching
ENTESB-5635	fabric join not allowing FQDN names throwing Container name 'abc.domain' is invalid. Container name must be: lower-case letters, numbers, and _ or - characters
ENTESB-5647	Need to add MRRC earlyaccess repo
ENTESB-5682	Status of installed 6.2.1 R2 and R3 patch on standalone container is false
ENTESB-5691	Remove fabric-groovy from fabric feature
ENTESB-5700	[fabric:create] Error executing command: Unable to create zookeeper server configuration
ENTESB-5714	JVM options for Fabric managed containers are not aligned
ENTESB-5716	Can't create child on 111, 115
ENTESB-5728	Hawtio throws "Cannot connect to Jolokia to access this Java process" exception for user with role Monitor, while trying to access container perspective

Issue Number	Description
ENTESB-5741	"org.eclipse.jgit.api.errors.JGitInternalException: Invalid ref name: baseline-ssh-fabric8-1.2.0.redhat-621117"
ENTESB-5759	A lot of connection refused in log when creating ssh in offline mode
ENTESB-5760	Can't create child on ssh container
ENTESB-5761	Ssh container in offline mode contains PatchException: can't find baseline
ENTESB-5762	Can't resolve any of the quickstarts in build #125
ENTESB-5816	Changing ZooKeeper settings invalidates ZK client session
ENTESB-5820	HTTP gateway does not show CXF endpoints after container restart
ENTESB-5832	Fabric - Wiki: Void profiles version "container-history" appeared
ENTESB-5836	PatchException during AMQ container fabric:join
ENTESB-5854	etc/org.apache.karaf.features.cfg overwritten with default values on first start
ENTESB-5898	instance.properties not updated after ensemble-add
ENTESB-5904	jmx.acl.whitelist.properties across profiles
ENTESB-5914	patch:add allows to add incorrect file
ENTESB-5926	rest and secure-rest quickstarts do not work on fabric
ENTESB-5935	intermittent ServerModel LinkageError when connecting to ssh container
ENTESB-5938	After Multiple Profile Deployments Fabric Container Runs Out of PermGen Space
ENTESB-5947	Increase default ZooKeeper Retry and Retry Interval
ENTESB-5951	Shell SCR bundle redeploy loop with camel-amq quickstart
ENTESB-5957	Many fabric8 patching tests are failing on windows with UnsupportedOperationException
ENTESB-5958	Fabric - Services - Containers: Containers list disappears when a container migrated to a version not containing one of the current profiles
ENTESB-5986	REST Endpoints are registered under /fabric/registry/clusters/apis/ws/ instead of ..apis/rest

Issue Number	Description
ENTESB-6003	handle PID file delete during patching
ENTESB-6011	Unable to patch fabric root container, when registered as system service on windows
ENTESB-6032	Unable to rollback standalone child container
ENTMQ-1314	PatchException: Invalid baseline-root-amq-6.2.1.redhat-071 specified
ENTMQ-1517	The jboss-a-mq-6.3.0.redhat-012.zip does not startup properly
ENTMQ-1724	Broker in fabric master/slave set up is shut down late when it loses connection to zookeeper
KARAF-3092	Remove <code>services-\${karaf.framework}</code> variables from <code>org.osgi.framework.system.capabilities</code>
KARAF-4155	Fall to feature start-level
SUREFIRE-1187	[SUREFIRE-1187] JUnit4 Provider created unnecessary Runner instance
ZOOKEEPER-2380	[ZOOKEEPER-2380] Deadlock between leader shutdown and forwarding ACK to the leader
ZOOKEEPER-2383	[ZOOKEEPER-2383] Startup race in ZooKeeperServer

4.4. MANAGEMENT CONSOLE - 6.3.0

Table 4.4, “Issues Resolved in 6.3.0:” lists the issues resolved between Fuse MQ Enterprise 7.1 and 6.3.0.

Table 4.4. Issues Resolved in 6.3.0:

Issue Number	Description
ENTESB-2401	[user experience] hawtio fabric wiki page missing picture
ENTESB-3387	RH Access - Links in RHA main menu vanish when mouse over
ENTESB-3504	The labels for the Actions submenu on the Wiki page disappear on mouse over
ENTESB-3515	Hawtio provides delete button for root container but it cannot be delete
ENTESB-3956	OSGi: fast switching OSGi tabs causes exception

Issue Number	Description
ENTESB-3957	OSGi - Bundles: Clicking links in a Bundle details page opens the welcome page instead of collapsing a pane content
ENTESB-4021	Camel: Route diagram isn't displayed in IE
ENTESB-4055	Improve Hawt.io Performance
ENTESB-4080	Can't delete queue created in Hawtio when name contains ":"
ENTESB-4165	ActiveMQ - Chart: PersistenceAdapter tree item has "View chart' under Chart tab and no data
ENTESB-4166	ActiveMQ - Browse: Checkboxes at message rows works badly after messages list is manually refreshed
ENTESB-4176	Camel - Camel Contexts - Attributes: Wrong ordering of some columns with text
ENTESB-4177	Camel - Camel Contexts - Attributes: Contexts table isn't refreshed after any context deleted
ENTESB-4183	Filtering is case sensitive
ENTESB-4185	OSGi - Bundles - Table view: Ordering of Version column content is wrong
ENTESB-4186	OSGi - Features: Filtering is case sensitive
ENTESB-4193	OSGi - Services: Bundle (number value) column ordering is lexicographical
ENTESB-4194	OSGi - Declarative Services: Activate button is enabled when Activated service is selected, Deactivate as well
ENTESB-4209	Preferences - Core - Host identification: All colors in color palette are white (IE10)
ENTESB-4219	About page contains unnecessarily 2 same links
ENTESB-4232	Containers - Profiles: Stop, Start, Delete buttons shouldn't be there
ENTESB-4234	Container detail - Provision list: Filtering is case sensitive
ENTESB-4246	Fabric - Wiki: Deleting default version causes exception and disables Wiki page
ENTESB-4253	Fabric - Services - APIs: "APIs, Container, Version" table columns allow only one direction of ordering
ENTESB-4256	Fabric - Services - EIPs: Diagram filtering is case sensitive

Issue Number	Description
ENTESB-4331	Cross Site Scripting Vulnerabilities
ENTESB-4350	Camel on EAP - filtering is not working
ENTESB-4352	Camel on EAP - Route Diagram - ns_error_failure
ENTESB-4365	Unnecessary down arrow
ENTESB-4366	Camel on EAP - Routes - Clear messages should delete message
ENTESB-4370	Camel Debug - Create breakpoint button is not intuitive
ENTESB-4372	Cross in filter field is not unified
ENTESB-4375	Fabric - Services - APIs: Quickstarts link points to a blank page
ENTESB-4379	Camel on EAP - Creating endpoint without choosing component
ENTESB-4380	Camel on EAP - checkboxes are not editable
ENTESB-4381	Camel on EAP - Type converters - Enable/Disable statistics
ENTESB-4385	ContextCreateHandler executed on non camel enabled deployments
ENTESB-4391	Null user on EAP
ENTESB-4404	No automatic reload after Camel Preferences change
ENTESB-4405	Preferences - ID label does not work
ENTESB-4407	Camel on EAP - Showing / Hiding Inflight counter does not work
ENTESB-4417	Preferences - Server Logs: Log batch size setting doesn't work
ENTESB-4418	Camel - two Create Endpoint buttons do different things
ENTESB-4516	Location of containers is displayed differently under Containers and Services tabs
ENTESB-4575	OSGi - getElementsByTagName error
ENTESB-4766	Authorization not working for Hawtio on EAP
ENTESB-4862	Hawtio-Viewing history on profile files throws exception
ENTESB-4892	"viewer" has some rights unexpected in hawtio

Issue Number	Description
ENTESB-4919	Child container does not inherit the location from its parent
ENTESB-4928	Missing convertBodyTo icon
ENTESB-4933	When cxf service is deployed to child container SwaggerFeature uses root container port instead
ENTESB-4934	Possible to Create Duplicate Container Processes in Hawtio
ENTESB-4937	Hawtio fails to show custom bundles in OSGi default view
ENTESB-4996	Viewer role able to create/delete queues and messages via Hawtio
ENTESB-5013	hawtio jetty threadpools tab shows no data
ENTESB-5037	Hawtio - clicking on Services/EIPs results in java.lang.SecurityException: Authentication Failed
ENTESB-5059	Fabric - Wiki: Several icons missing in the left navigation with checkboxes
ENTESB-5062	Fabric: missing all tabs except "Containers"
ENTESB-5088	Hawtio JavaScript error when accessing Quartz tab
ENTESB-5191	Apparent mismatch between command count with tab completion
ENTESB-5196	Vanishing items at various menus
ENTESB-5198	Logs: Often Parse error when loading logs
ENTESB-5199	Fabric - Containers - Profiles: Clicking profile's tags causes exception
ENTESB-5200	Fabric - Containers,Services: Remove Stop button when Root container selected
ENTESB-5209	Deleting topics doesn't have a confirmation dialog
ENTESB-5213	Bump licence headers to 2016
ENTESB-5226	Hawtio change behavior of Activate/Deactivate buttons in OSGi/Declarative Services
ENTESB-5244	Fabric - Wiki - Delete version dialog: Change warning for default version
ENTESB-5252	Clicking on Jetty tab shows "Are you sure?" screen for a moment
ENTESB-5324	Health tab in Hawtio not being displayed for fabric containers

Issue Number	Description
ENTESB-5441	Scaling Save and Cancel buttons are not disabled after cancel
ENTESB-5525	Fabric - Containers - Location: Filtering field filters containers instead of locations
ENTESB-5566	Multiple roles defined in hawtio.roles property not working in EAP
ENTESB-5596	OSGi - Declarative Services - {{row.id}} shows up
ENTESB-5622	User with Read-only privilege can delete/move messages through hawtio
ENTESB-5629	Authenticator.checkIfSubjectHasRequiredRoleOnWebsphere method is missing logic to handle multiple roles
ENTESB-5647	Need to add MRRC earlyaccess repo
ENTESB-5657	Fabric - Profiles - Deploy: Creating a new container with profiles version other than default fails
ENTESB-5768	Fabric - Wiki - profile detail: typing in add artifact field is mirrored to another text field
ENTESB-5818	Upgrade httpclient version to latest, at a minimum > 4.3.4
ENTESB-5921	There is not Delete button in Hawtio for SSH container
ENTESB-5935	intermittent ServerModel LinkageError when connecting to ssh container
ENTESB-5958	Fabric - Services - Containers: Containers list disappears when a container migrated to a version not containing one of the current profiles
ENTESB-5976	Hawtio on EAP shows wrong Context Root
ENTMQ-1078	Some characters in the name of queue should not be allowed
ENTMQ-1850	ActiveMQ - Browse: Un/checking all messages doesn't work properly after any message deleted

4.5. OPENSIFT ENTERPRISE CARTRIDGES - 6.3.0

Table 4.5, "Issues in OpenShift Enterprise Cartridges Resolved in 6.3.0" lists the issues resolved in version 6.3.0.

Table 4.5. Issues in OpenShift Enterprise Cartridges Resolved in 6.3.0

Issue	Description

CHAPTER 5. ENHANCEMENTS

5.1. MESSAGING - 6.3.0

Table 5.1, “Messaging Enhancements in 6.3.0” lists the enhancements in version 6.3.0.

Table 5.1. Messaging Enhancements in 6.3.0

Enhancement	Description
ENTESB-3176	Set OriginalDestination AMQ message property before sending it to DLQ
ENTESB-4135	Update to the JMS 2.0 API
ENTMQ-1432	[A-MQ,kahadb] add configuration so broker will not start if storeUsage limit is not available on the disk
ENTMQ-1498	Work with JMS 2.0 osgi dependency
ENTMQ-1525	[A-MQ, RuntimeConfigurationBroker] allowing policy that applies to multiple destination to be updated.
ENTMQ-1528	JDBC Concurrency
ENTMQ-1628	Stand-alone A-MQ has DBCP2, whilst OSGi version has DBCP1.4
ENTMQ-1836	Temporary store index/log files splitting
ENTMQ-1885	configurable hostname for published address strategy
AMQ-5289	Track forwards across a network in destination statistics
AMQ-5578	preallocate journal files
AMQ-5603	Consider preallocation of journal files in batch increments
AMQ-5621	Unit tests cleanup
AMQ-5636	Upgrade the bundled DBCP component. The current one is very old and buggy.
AMQ-5845	AMQP: Include broker version information in the Connection properties
AMQ-6001	AMQP: Refill sender credit faster to avoid throttling fast producers
AMQ-6015	AMQP: Report more meaningful error conditions when an incoming send fails
AMQ-6077	Better configuration of restricted classes for clients

Enhancement	Description
AMQ-6100	Virtual topic message destination should be the target queue
AMQ-6116	Improve security context authorization cache
AMQ-6126	The corePoolSize value of the TaskRunnerFactory created Executor should be configurable
AMQ-6147	AMQP: Update Proton-J to 0.12.1
AMQ-6149	Pre-configure jolokia
AMQ-6164	queue sendLock prevents concurrent journal updates
AMQ-6167	examples/other/perfharness misses readme and uses broken link.
AMQ-6184	Improve nio transport scalability
AMQ-6203	KahaDB: Allow rewrite of message acks in older logs which prevent cleanup
AMQ-6228	Max Frame Size Error exception shows incorrect values at times
AMQ-6239	Performance issue in PrioritizedPendingListIterator
AMQ-6259	Enable configuration for mqtt-over-ws transport
AMQ-6276	Remove fileserver webapp
AMQ-6277	KahaDB does journal recovery for last append in error in normal restart case
AMQ-6278	Revisit the log level in LeaseDatabaseLocker
AMQ-6292	ACK rewrite task does unnecessary syncs
AMQ-6304	Container-id field blank on sending an AMQP 1.0 open frame to the client
AMQ-6336	QueueBrowser delivers expired messages
AMQ-6403	Allow splitting the temporary message store
CAMEL-8522	Set OriginalDestination AMQ message property before sending it to DLQ
AMQ-3519	Allow getJMSRedelivered flag to survive a restart
AMQ-5847	AMQP: Support transactions that span multiple session for a single TXN

Enhancement	Description
AMQ-6037	AMQP: Add support for sending scheduled message using message annotations
AMQ-6362	Add an option to time out connection attempts when blocked in ensureConnectionInfoSent
ENTMQ-1659	Consider preallocation of journal files in batch increments
AMQ-5962	Update HTTP Client and Core versions
AMQ-5980	Update to the latest Jetty version
AMQ-6084	Have an option to error out if a limit is exceeded
AMQ-5957	Update outdated dependencies used by broker.
AMQ-6044	AMQP: Add support for testing transactions with the test client.
AMQ-6093	Remove deprecated getXURL methods from the BrokerServiceMBean
AMQ-6107	AMQP: Remove deprecated prefetch size configuration option from the transport
AMQ-6178	AMQP: Update Qpid JMS to 0.9.0
AMQ-6181	Upgrade to Joda-time 2.9
AMQ-6309	AMQP: Static code analysis of activemq-amqp
ENTESB-5636	3rd party alignments - built from source strict alignments
ENTMQ-1565	The Readme File For The Stomp Extras Example Needs More Details

5.2. CONTAINER - 6.3.0

Table 5.2, "Container Enhancements in 6.3.0" lists the enhancements in version 6.3.0.

Table 5.2. Container Enhancements in 6.3.0

Enhancement	Description
KARAF-4343	Upgrade to Xalan 2.7.2_3
KARAF-4449	Upgrade to Aries proxy-impl 1.0.5
ENTESB-4135	Update to the JMS 2.0 API

Enhancement	Description
ENTESB-4479	Update Jenkins jobs to use Flaky Test Plugin and Surefire rerun failing tests option
ENTESB-4674	jmxRole configuration not inherited from parent when creating child container
ENTESB-4787	Fabric child container's initial properties should default to those of its parent
ENTESB-4839	System scripts: provide Systemd templates to manage Karaf child instances
ENTESB-4865	Improve support for Solaris 10 init scripts
ENTESB-4989	Improve fuse init scripts
ENTESB-5215	Add "-Xshareclasses:none" to DEFAULT_JAVA_OPTS for IBM Java
ENTESB-5553	Use Red Hat build of winsw
ENTESB-5632	Download brew tanuki libs rather than checking them into source
ENTESB-4386	Use system specific init scripts
ENTESB-4440	upgrade to jetty 9
ENTESB-5236	Need DigestPasswordLoginModule so PasswordDigest can work with Karaf JAAS realm
ARIES-1395	Add a structure-only option to Blueprint xml-validation feature
KARAF-2921	bin/karaf selecting the wrong Java VM on a computer with Java 8 installed
KARAF-3016	Be able to redirect child instance std out in a file
KARAF-4243	Add apache ignite to feature repo:add shorthand
KARAF-4351	[RBAC] Optimize access to JMXSecurityMBean.canInvoke(Map)
KARAF-4520	Add DigestPasswordLoginModule so PasswordDigest can work with Karaf JAAS realm
KARAF-4523	JMXSecurityMBean bulk canInvoke should be robust even if bulkQuery contains duplicate operations
KARAF-4157	Provide system script to start Karaf without service wrapper
ENTESB-4953	incorrect version imports in features:install camel-spring-security
ENTESB-5243	Upgrade pax-url to version >= 2.4.7

Enhancement	Description
ENTESB-1335	Use Red Hat Tanuki build in Fuse 6.1
ENTESB-4708	[6.3] Summary of problems with version alignment
ENTESB-5376	Remove spring-dm support
ENTESB-5408	Upgrade to Pax Logging 1.8.5
ENTESB-55	Starting FuseESB on Windows shows karaf in the window title bar
ENTESB-5636	3rd party alignments - built from source strict alignments
KARAF-4349	Use the same approach of KARAF-4330 in karaf.bat script
KARAF-4363	ssh:sshd command shows default values twice

5.3. FUSE FABRIC - 6.3.0

Table 5.3, “Fabric Enhancements in 6.3.0” lists the enhancements in version 6.3.0.

Table 5.3. Fabric Enhancements in 6.3.0

Enhancement	Description
KARAF-4449	Upgrade to Aries proxy-impl 1.0.5
ENTESB-2705	Appending value to property in default profile breaks property file
ENTESB-3155	mq-create : use default-version when no version is specified, instead of 1.0
ENTESB-4135	Update to the JMS 2.0 API
ENTESB-4221	Please tidy up jetty port references in our configuration files
ENTESB-4222	Improve the recovery of fuse ensemble cluster
ENTESB-4581	Fabric8 jvm options for nodes should be applied when node is started using bin/karaf
ENTESB-4583	Need a way to change the user credentials for managing SSH containers
ENTESB-4598	Need a way to set "autopurge.purgeInterval" of Zookeeper.
ENTESB-4600	[patching] Add warning or error when applying patch for Fuse 6.1 on Fuse 6.2
ENTESB-4674	jmxRole configuration not inherited from parent when creating child container

Enhancement	Description
ENTESB-4684	Request to provide additional status in the fabric:container-list command
ENTESB-4726	Upgrade swagger to 1.5.4
ENTESB-4787	Fabric child container's initial properties should default to those of its parent
ENTESB-4917	Enhance Exception Reporting In FabricFeaturesServiceImpl
ENTESB-5041	Add option to "fabric:requirements-export" command to indent requirements-export json output
ENTESB-5052	Update the camel-cxf-code-first and camel-cxf-contract-first quickstarts so they don't use the same endpoints
ENTESB-5182	Please include org.springframework/spring-webmvc in Fuse BOM
ENTESB-5479	Fabric should externalize jolokia-access.xml, or provide similar configuration facilities
ENTESB-5533	unable to delete resource from fabric:profile-edit --delete
ENTESB-5537	[patching] Make it easier to patch patching mechanism itself
ENTESB-5805	beginner/camel-log-wiki example uses invalid timer value
ENTESB-4340	Delete bin/deletefabric8 script
ENTESB-4386	Use system specific init scripts
ENTESB-4440	upgrade to jetty 9
ENTESB-4441	upgrade to CXF 3.1
ENTESB-4852	Support AMQ 7 clients and camel connector
ENTESB-4901	Missing --manual-ip parameter for fabric:container-resolver-set manualip
ARIES-1395	Add a structure-only option to Blueprint xml-validation feature
CAMEL-9039	Feature camel-core contains bundles, which should be made optional for micro-services deployment
ENTESB-4806	Race condition in Fabric environment deploying SAP Components to child container
ENTESB-5243	Upgrade pax-url to version >= 2.4.7

Enhancement	Description
ENTESB-4708	[6.3] Summary of problems with version alignment
ENTESB-4857	Disable geolP by default
ENTESB-5408	Upgrade to Pax Logging 1.8.5
ENTESB-5636	3rd party alignments - built from source strict alignments
ENTESB-5764	[maven] Verify whether fabric-maven should serve SNAPSHOTs from defaultRepositories
ENTESB-5803	[patching] split patch-core to impl and api bundles

5.4. MANAGEMENT CONSOLE - 6.3.0

Table 5.4, “Enhancements in 6.3.0” lists the enhancements in 6.3.0.

Table 5.4. Enhancements in 6.3.0

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

CHAPTER 6. SUPPORTED CONFIGURATIONS

6.1. INFORMATION ON THE CUSTOMER PORTAL

For information about supported configurations, standards, and components in version 6.3, see the following Customer Portal articles:

- [Red Hat AMQ Supported Configurations](#)
- [Red Hat AMQ Supported Standards and Protocols](#)