

FindBugs Apache ActiveMQ Core

| Summary | | | | |
|---|----------------|--------|-----------------|---|
| Classes | Bugs | Errors | Missing Classes | Classes |
| 2113 | 659 | 0 | 0 | 2113 |
| Files | | | | |
| org.apache.activemq.ActiveMQConnection | | | | |
| Bug | Category | Line | Priority | Details |
| Possible doublecheck on org.apache.activemq.ActiveMQConnection.scheduler in org.apache.activemq.ActiveMQConnection.getScheduler() | MT_CORRECTNESS | 2475 | Medium | DC_DOUBLECHECK |
| org.apache.activemq.ActiveMQConnection.onControlCommand(ControlCommand) invokes System.exit(...), which shuts down the entire virtual machine | BAD_PRACTICE | 2310 | Medium | DM_EXIT |
| org.apache.activemq.ActiveMQConnection.finalize() is public; should be protected | MALICIOUS_CODE | 1597 | Medium | FI_PUBLIC_SHOULD_BE_PROTECTED |
| Inconsistent synchronization of org.apache.activemq.ActiveMQConnection.scheduler; locked 75% of time | MT_CORRECTNESS | 2474 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.ActiveMQConnection.sessionTaskRunner; locked 60% of time | MT_CORRECTNESS | 996 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.ActiveMQConnection.watchTopicAdvisories; locked 66% of time | MT_CORRECTNESS | 1489 | Medium | IS2_INCONSISTENT_SYNC |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.ActiveMQConnection.stop() | MT_CORRECTNESS | 559 | High | JLM_JSR166_UTILCONCURRENT_MONITORER |
| org.apache.activemq.ActiveMQConnection.DEFAULT_THREAD_POOL_SIZE isn't final but should be | MALICIOUS_CODE | 115 | High | MS_SHOULD_BE_FINAL |
| Nullcheck of t at line 1366 of value previously dereferenced in org.apache.activemq.ActiveMQConnection.syncSendPacket(Command) | CORRECTNESS | 1366 | Medium | RCN_REDUNDANT_NULLCHECK_WOULD_HAVE_BEEN_A_NPE |
| return value of java.util.concurrent.CountDownLatch.await(long, TimeUnit) ignored in org.apache.activemq.ActiveMQConnection.getBrokerName() | CORRECTNESS | 1636 | Medium | RV_RETURN_VALUE_IGNORED |
| return value of java.util.concurrent.CountDownLatch.await(long, TimeUnit) ignored in org.apache.activemq.ActiveMQConnection.waitForTransportInterruptionProcessingToComplete() | CORRECTNESS | 2413 | Medium | RV_RETURN_VALUE_IGNORED |
| org.apache.activemq.ActiveMQConnectionFactory | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.ActiveMQConnectionFactory.clientIDPrefix; locked 50% of time | MT_CORRECTNESS | 883 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.ActiveMQConnectionFactory.clientIdGenerator; locked 80% of time | MT_CORRECTNESS | 908 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.ActiveMQConnectionFactory.connectionIDPrefix; locked 66% of time | MT_CORRECTNESS | 916 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.ActiveMQConnectionFactory.connectionIdGenerator; locked 80% of time | MT_CORRECTNESS | 931 | Medium | IS2_INCONSISTENT_SYNC |
| connection is null guaranteed to be dereferenced in org.apache.activemq.ActiveMQConnectionFactory.createActiveMQConnection(String, String) on exception path | CORRECTNESS | 290 | Medium | NP_GUARANTEED_DEREF_ON_EXCEPTION_PATH |
| org.apache.activemq.ActiveMQInputStream\$ReadTimeoutException | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.ActiveMQInputStream\$ReadTimeoutException be a _static_ inner class? | PERFORMANCE | 303 | Medium | SIC_INNER_SHOULD_BE_STATIC |
| org.apache.activemq.ActiveMQMessageConsumer | | | | |
| Bug | Category | Line | Priority | Details |
| Possible doublecheck on org.apache.activemq.ActiveMQMessageConsumer.clearDispatchList in org.apache.activemq.ActiveMQMessageConsumer.clearDispatchList() | MT_CORRECTNESS | 1397 | Medium | DC_DOUBLECHECK |
| Exception is caught when Exception is not thrown in org.apache.activemq.ActiveMQMessageConsumer.dispatch(MessageDispatch) | STYLE | 1390 | Medium | REC_CATCH_EXCEPTION |
| org.apache.activemq.ActiveMQMessageConsumer\$PreviouslyDeliveredMap | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.ActiveMQMessageConsumer\$PreviouslyDeliveredMap be a _static_ inner class? | PERFORMANCE | 108 | Medium | SIC_INNER_SHOULD_BE_STATIC |
| org.apache.activemq.ActiveMQPrefetchPolicy | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.ActiveMQPrefetchPolicy defines equals and uses Object.hashCode() | BAD_PRACTICE | 170 | High | HE_EQUALS_USE_HASHCODE |
| org.apache.activemq.ActiveMQSslConnectionFactory | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.ActiveMQSslConnectionFactory.setKeyAndTrustManagers(KeyManager[], TrustManager[], SecureRandom) may expose internal representation by storing an externally mutable object into ActiveMQSslConnectionFactory.keyManager | MALICIOUS_CODE | 88 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.ActiveMQSslConnectionFactory.setKeyAndTrustManagers(KeyManager[], TrustManager[], SecureRandom) may expose internal representation by storing an externally mutable object into ActiveMQSslConnectionFactory.trustManager | MALICIOUS_CODE | 89 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.Message | | | | |
| Bug | Category | Line | Priority | Details |
| The class name org.apache.activemq.Message shadows the simple name of implemented interface javax.jms.Message | BAD_PRACTICE | | Medium | NM_SAME_SIMPLE_NAME_AS_INTERFACE |
| org.apache.activemq.SimplePriorityMessageDispatchChannel | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.SimplePriorityMessageDispatchChannel.toString() concatenates strings using + in a loop | PERFORMANCE | 231 | Medium | SBSC_USE_STRINGBUFFER_CONCATENATION |
| org.apache.activemq.advisory.AdvisoryBroker | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ActiveMQDestination is incompatible with expected argument type org.apache.activemq.command.DestinationInfo in org.apache.activemq.advisory.AdvisoryBroker.removeProducer(ConnectionContext, ProducerInfo) | CORRECTNESS | 276 | High | GC_UNRELATED_TYPES |

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| Return value of putIfAbsent is ignored, but advisoryMessage is reused in org.apache.activemq.advisory.AdvisoryBroker.networkBridgeStarted(BrokerInfo, boolean, String) | MT_CORRECTNESS | 435 | High | RV_RETURN_VALUE_OF_PUTIF_ABSENT_IGNORED |
| org.apache.activemq.advisory.DestinationEvent | | | | |
| Bug | Category | Line | Priority | Details |
| Class org.apache.activemq.advisory.DestinationEvent defines non-transient non-serializable instance field destinationInfo | BAD_PRACTICE | | Medium | SE_BAD_FIELD |
| org.apache.activemq.blob.DefaultBlobUploadStrategy | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.blob.DefaultBlobUploadStrategy.uploadFile(ActiveMQBlobMessage, File) may fail to clean up java.io.InputStream | EXPERIMENTAL | 43 | Medium | OBL_UNSATISFIED_OBLIGATION_EXCEPTION_EDGE |
| org.apache.activemq.blob.FTPBlobUploadStrategy | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.blob.FTPBlobUploadStrategy.uploadFile(ActiveMQBlobMessage, File) may fail to clean up java.io.InputStream | EXPERIMENTAL | 41 | Medium | OBL_UNSATISFIED_OBLIGATION_EXCEPTION_EDGE |
| org.apache.activemq.blob.FileSystemBlobStrategy | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.blob.FileSystemBlobStrategy.uploadFile(ActiveMQBlobMessage, File) may fail to clean up java.io.InputStream | EXPERIMENTAL | 68 | Medium | OBL_UNSATISFIED_OBLIGATION_EXCEPTION_EDGE |
| org.apache.activemq.blob.FileSystemBlobStrategy.uploadStream(ActiveMQBlobMessage, InputStream) may fail to clean up java.io.OutputStream on checked exception | EXPERIMENTAL | 77 | Medium | OBL_UNSATISFIED_OBLIGATION_EXCEPTION_EDGE |
| exceptional return value of java.io.File.mkdirs() ignored in org.apache.activemq.blob.FileSystemBlobStrategy.createRootFolder() | BAD_PRACTICE | 58 | Medium | RV_RETURN_VALUE_IGNORED_BAD_PRACTICE |
| org.apache.activemq.broker.AbstractLocker | | | | |
| Bug | Category | Line | Priority | Details |
| Unread public/protected field: org.apache.activemq.broker.AbstractLocker.name | STYLE | 44 | Medium | URF_UNREAD_PUBLIC_OR_PROTECTED_FIELD |
| org.apache.activemq.broker.BrokerService | | | | |
| Bug | Category | Line | Priority | Details |
| Found reliance on default encoding in org.apache.activemq.broker.BrokerService.<static initializer>(): new java.io.InputStreamReader(InputStream) | I18N | 251 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.broker.BrokerService.getDestinationInterceptors() may expose internal representation by returning BrokerService.destinationInterceptors | MALICIOUS_CODE | 1600 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.broker.BrokerService.getDestinations() may expose internal representation by returning BrokerService.destinations | MALICIOUS_CODE | 1625 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.broker.BrokerService.getJmsBridgeConnectors() may expose internal representation by returning BrokerService.jmsBridgeConnectors | MALICIOUS_CODE | 1311 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.broker.BrokerService.getNetworkConnectorURIs() may expose internal representation by returning BrokerService.networkConnectorURIs | MALICIOUS_CODE | 1265 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.broker.BrokerService.getPlugins() may expose internal representation by returning BrokerService.plugins | MALICIOUS_CODE | 1471 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.broker.BrokerService.getTransportConnectorURIs() may expose internal representation by returning BrokerService.transportConnectorURIs | MALICIOUS_CODE | 1300 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.broker.BrokerService.setDestinationInterceptors(DestinationInterceptor[]) may expose internal representation by storing an externally mutable object into BrokerService.destinationInterceptors | MALICIOUS_CODE | 1621 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.broker.BrokerService.setDestinations(ActiveMQDestination[]) may expose internal representation by storing an externally mutable object into BrokerService.destinations | MALICIOUS_CODE | 1632 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.broker.BrokerService.setJmsBridgeConnectors(JmsConnector[]) may expose internal representation by storing an externally mutable object into BrokerService.jmsBridgeConnectors | MALICIOUS_CODE | 1319 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.broker.BrokerService.setNetworkConnectorURIs(String[]) may expose internal representation by storing an externally mutable object into BrokerService.networkConnectorURIs | MALICIOUS_CODE | 1269 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.broker.BrokerService.setPlugins(BrokerPlugin[]) may expose internal representation by storing an externally mutable object into BrokerService.plugins | MALICIOUS_CODE | 1479 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.broker.BrokerService.setTransportConnectorURIs(String[]) may expose internal representation by storing an externally mutable object into BrokerService.transportConnectorURIs | MALICIOUS_CODE | 1304 | Medium | EI_EXPOSE_REP2 |
| Inconsistent synchronization of org.apache.activemq.broker.BrokerService.executor; locked 42% of time | MT_CORRECTNESS | 796 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.broker.BrokerService.scheduler; locked 50% of time | MT_CORRECTNESS | 735 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.broker.BrokerService.tempDataStore; locked 54% of time | MT_CORRECTNESS | 756 | Medium | IS2_INCONSISTENT_SYNC |
| Possible null pointer dereference of dir in org.apache.activemq.broker.BrokerService.checkSystemUsageLimits() | CORRECTNESS | 1884 | Medium | NP_NULL_ON_SOME_PATH |
| Possible null pointer dereference of tmpDir in org.apache.activemq.broker.BrokerService.checkSystemUsageLimits() | CORRECTNESS | 1923 | Medium | NP_NULL_ON_SOME_PATH |
| org.apache.activemq.broker.BrokerService.<static initializer>() may fail to close stream | BAD_PRACTICE | 251 | Medium | OS_OPEN_STREAM |
| Useless control flow in org.apache.activemq.broker.BrokerService.unregisterPersistenceAdapterMBean(PersistenceAdapter) | STYLE | 1998 | Medium | UCF_USELESS_CONTROL_FLOW |
| org.apache.activemq.broker.BrokerService\$3 | | | | |
| Bug | Category | Line | Priority | Details |
| Unconditional wait in org.apache.activemq.broker.BrokerService\$3.run() | MT_CORRECTNESS | 633 | Medium | UW_UNCOND_WAIT |
| Wait not in loop in org.apache.activemq.broker.BrokerService\$3.run() | MT_CORRECTNESS | 633 | Medium | WA_NOT_IN_LOOP |
| org.apache.activemq.broker.BrokerService\$4 | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.BrokerService\$4.run() invokes System.exit(...), which shuts down the entire virtual machine | BAD_PRACTICE | 724 | Medium | DM_EXIT |
| org.apache.activemq.broker.ConnectionContext | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.broker.ConnectionContext.networkConnection; locked 50% of time | MT_CORRECTNESS | 98 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.broker.PropertiesBrokerFactory | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.PropertiesBrokerFactory.loadProperties(URI) may fail to clean up java.io.InputStream on checked exception | EXPERIMENTAL | 59 | Medium | OBL_UNSATISFIED_OBLIGATION_EXCEPTION_EDGE |

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| org.apache.activemq.broker.SingleTransportConnectionStateRegister | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.broker.SingleTransportConnectionStateRegister.connectionState; locked 68% of time | MT_CORRECTNESS | 146 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.broker.TransactionBroker | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.broker.TransactionBroker.audit; locked 40% of time | MT_CORRECTNESS | 314 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.broker.TransportConnection | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.TransportConnection.processControlCommand(ControlCommand) invokes System.exit(...), which shuts down the entire virtual machine | BAD_PRACTICE | 1418 | Medium | DM_EXIT |
| Inconsistent synchronization of org.apache.activemq.broker.TransportConnection.duplexNetworkConnectorId; locked 50% of time | MT_CORRECTNESS | 1284 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.broker.TransportConnection.masterBroker; locked 50% of time | MT_CORRECTNESS | 1227 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.broker.TransportConnection.pendingStop; locked 50% of time | MT_CORRECTNESS | 293 | Medium | IS2_INCONSISTENT_SYNC |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.TransportConnection.processBrokerInfo(BrokerInfo) | MT_CORRECTNESS | 1250 | High | JLM_JSR166_UTILCONCURREN_T_MONITORENTER |
| Possible null pointer dereference of cs in org.apache.activemq.broker.TransportConnection.processBeginTransaction(TransactionInfo) | CORRECTNESS | 359 | Medium | NP_NULL_ON_SOME_PATH |
| Possible null pointer dereference of cs in org.apache.activemq.broker.TransportConnection.processPrepareTransaction(TransactionInfo) | CORRECTNESS | 383 | Medium | NP_NULL_ON_SOME_PATH |
| return value of java.util.concurrent.CountDownLatch.await(long, TimeUnit) ignored in org.apache.activemq.broker.TransportConnection.processBrokerInfo(BrokerInfo) | CORRECTNESS | 1257 | Medium | RV_RETURN_VALUE_IGNORED |
| org.apache.activemq.broker.TransportConnection\$4 | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.TransportConnection\$4.run() does not release lock on all exception paths | MT_CORRECTNESS | 998 | Medium | UL_UNRELEASED_LOCK_EXCEPTION_PATH |
| org.apache.activemq.broker.TransportConnector | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.TransportConnector.getConnectionControl() concatenates strings using + in a loop | PERFORMANCE | 392 | Medium | SBSC_USE_STRINGBUFFER_CONCATENATION |
| org.apache.activemq.broker.cluster.ConnectionSplitBroker | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to dest in org.apache.activemq.broker.cluster.ConnectionSplitBroker.addConsumer(ConnectionContext, ConsumerInfo) | STYLE | 49 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.broker.jmx.AnnotatedMBean | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.jmx.AnnotatedMBean.invoke(String, Object[], String[]) concatenates strings using + in a loop | PERFORMANCE | 186 | Medium | SBSC_USE_STRINGBUFFER_CONCATENATION |
| org.apache.activemq.broker.jmx.BrokerView | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.jmx.BrokerView.terminateJVM(int) invokes System.exit(...), which shuts down the entire virtual machine | BAD_PRACTICE | 194 | Medium | DM_EXIT |
| Redundant nullcheck of connector, which is known to be non-null in org.apache.activemq.broker.jmx.BrokerView.addNetworkConnector(String) | STYLE | 268 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NONNULL_VALUE |
| Redundant nullcheck of subscription, which is known to be non-null in org.apache.activemq.broker.jmx.BrokerView.createDurableSubscriber(String, String, String, String) | STYLE | 325 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NONNULL_VALUE |
| Redundant nullcheck of file, which is known to be non-null in org.apache.activemq.broker.jmx.BrokerView.getDataDirectory() | STYLE | 435 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NONNULL_VALUE |
| org.apache.activemq.broker.jmx.DestinationView | | | | |
| Bug | Category | Line | Priority | Details |
| Possible null pointer dereference of connection in org.apache.activemq.broker.jmx.DestinationView.sendMessage(Map, String, String, String) on exception path | CORRECTNESS | 294 | Medium | NP_NULL_ON_SOME_PATH_EXCEPTION |
| org.apache.activemq.broker.jmx.ManagedRegionBroker | | | | |
| Bug | Category | Line | Priority | Details |
| Null passed for nonnull parameter of org.apache.activemq.broker.region.RegionBroker.send(ProducerBrokerExchange, Message) in org.apache.activemq.broker.jmx.ManagedRegionBroker.send(ProducerBrokerExchange, Message) | CORRECTNESS | 311 | Medium | NP_NULL_PARAM_DEREF |
| org.apache.activemq.broker.jmx.ManagementContext | | | | |
| Bug | Category | Line | Priority | Details |
| Redundant nullcheck of method, which is known to be non-null in org.apache.activemq.broker.jmx.ManagementContext.findTigerMBeanServer() | STYLE | 434 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NONNULL_VALUE |
| org.apache.activemq.broker.jmx.OpenTypeSupport\$ByteMessageOpenTypeFactory | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.jmx.OpenTypeSupport\$ByteMessageOpenTypeFactory.getFields(Object) invokes inefficient new Byte(byte) constructor; use Byte.valueOf(byte) instead | PERFORMANCE | 295 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.broker.region.CompositeDestinationInterceptor | | | | |
| Bug | Category | Line | Priority | Details |
| new org.apache.activemq.broker.region.CompositeDestinationInterceptor(DestinationInterceptor[]) may expose internal representation by storing an externally mutable object into CompositeDestinationInterceptor.interceptors | MALICIOUS_CODE | 33 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.broker.region.Queue\$BrowserDispatch | | | | |

| Bug | Category | Line | Priority | Details |
|---|----------------|------|----------|---|
| Should org.apache.activemq.broker.region.Queue\$BrowserDispatch be a _static_ inner class? | PERFORMANCE | 398 | Medium | SIC INNER SHOULD BE STATI C |
| org.apache.activemq.broker.region.Queue\$QueueThread | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.broker.region.Queue\$QueueThread be a _static_ inner class? | PERFORMANCE | 250 | Medium | SIC INNER SHOULD BE STATI C |
| org.apache.activemq.broker.region.Queue\$TimeoutMessage | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.region.Queue\$TimeoutMessage defines compareTo(Object) and uses Object.equals() | BAD_PRACTICE | 144 | Medium | EQ_COMPARETO_USE_OBJECT_EQUALS |
| Should org.apache.activemq.broker.region.Queue\$TimeoutMessage be a _static_ inner class? | PERFORMANCE | 144 | Medium | SIC INNER SHOULD BE STATI C |
| org.apache.activemq.broker.region.RegionBroker | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.region.RegionBroker.stampAsExpired(Message) invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 786 | Medium | DM_NUMBER_CTOR |
| Switch statement found in org.apache.activemq.broker.region.RegionBroker.addProducer(ConnectionContext, ProducerInfo) where default case is missing | STYLE | 362 | Medium | SF_SWITCH_NO_DEFAULT |
| Switch statement found in org.apache.activemq.broker.region.RegionBroker.removeProducer(ConnectionContext, ProducerInfo) where default case is missing | STYLE | 388 | Medium | SF_SWITCH_NO_DEFAULT |
| org.apache.activemq.broker.region.Topic | | | | |
| Bug | Category | Line | Priority | Details |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.region.Topic.activate(ConnectionContext, DurableTopicSubscription) | MT_CORRECTNESS | 223 | High | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.region.Topic.activate(ConnectionContext, DurableTopicSubscription) | MT_CORRECTNESS | 227 | High | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.region.Topic.activate(ConnectionContext, DurableTopicSubscription) | MT_CORRECTNESS | 245 | High | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.region.Topic.addSubscription(ConnectionContext, Subscription) | MT_CORRECTNESS | 123 | High | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.region.Topic.addSubscription(ConnectionContext, Subscription) | MT_CORRECTNESS | 139 | High | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.region.Topic.addSubscription(ConnectionContext, Subscription) | MT_CORRECTNESS | 152 | High | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.region.Topic.deactivate(ConnectionContext, DurableTopicSubscription) | MT_CORRECTNESS | 287 | High | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.region.Topic.dispatch(ConnectionContext, Message) | MT_CORRECTNESS | 671 | High | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.region.Topic.getConsumers() | MT_CORRECTNESS | 103 | High | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Synchronization performed on java.util.concurrent.CopyOnWriteArrayList in org.apache.activemq.broker.region.Topic.removeSubscription(ConnectionContext, Subscription, long) | MT_CORRECTNESS | 181 | High | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Test warning generated in org.apache.activemq.broker.region.Topic.send(ProducerBrokerExchange, Message) | EXPERIMENTAL | 394 | Medium | TESTING |
| org.apache.activemq.broker.region.TopicRegion | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.broker.region.TopicRegion.createSubscription(ConnectionContext, ConsumerInfo) | MT_CORRECTNESS | 318 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| org.apache.activemq.broker.region.TopicSubscription | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.broker.region.TopicSubscription.audit; locked 66% of time | MT_CORRECTNESS | 193 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.broker.region.TopicSubscription.destination; locked 50% of time | MT_CORRECTNESS | 534 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.broker.region.TopicSubscription.getMaxAuditDepth() is unsynchronized, org.apache.activemq.broker.region.TopicSubscription.setMaxAuditDepth(int) is synchronized | MT_CORRECTNESS | 374 | Medium | UG_SYNC_SET_UNSYNC_GET |
| org.apache.activemq.broker.region.TopicSubscription.getMaxProducersToAudit() is unsynchronized, org.apache.activemq.broker.region.TopicSubscription.setMaxProducersToAudit(int) is synchronized | MT_CORRECTNESS | 363 | Medium | UG_SYNC_SET_UNSYNC_GET |
| org.apache.activemq.broker.region.cursors.AbstractPendingMessageCursor | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.broker.region.cursors.AbstractPendingMessageCursor.audit; locked 85% of time | MT_CORRECTNESS | 269 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.broker.region.cursors.AbstractPendingMessageCursor.maxAuditDepth; locked 60% of time | MT_CORRECTNESS | 227 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.broker.region.cursors.AbstractPendingMessageCursor.getMaxAuditDepth() is unsynchronized, org.apache.activemq.broker.region.cursors.AbstractPendingMessageCursor.setMaxAuditDepth(int) is synchronized | MT_CORRECTNESS | 227 | Medium | UG_SYNC_SET_UNSYNC_GET |
| org.apache.activemq.broker.region.cursors.AbstractPendingMessageCursor.getMaxProducersToAudit() is unsynchronized, org.apache.activemq.broker.region.cursors.AbstractPendingMessageCursor.setMaxProducersToAudit(int) is synchronized | MT_CORRECTNESS | 210 | Medium | UG_SYNC_SET_UNSYNC_GET |
| org.apache.activemq.broker.region.cursors.PrioritizedPendingList | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.region.MessageReference is incompatible with expected argument type PendingNode in org.apache.activemq.broker.region.cursors.PrioritizedPendingList.contains(MessageReference) | CORRECTNESS | 136 | Medium | GC_UNRELATED_TYPES |
| org.apache.activemq.broker.region.cursors.QueueStorePrefetch | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.region.cursors.StoreQueueCursor | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.broker.region.cursors.StoreQueueCursor.nonPersistent; locked 47% of time | MT_CORRECTNESS | 162 | Medium | IS2_INCONSISTENT_SYNC |
| Possible null pointer dereference of StoreQueueCursor.nonPersistent in org.apache.activemq.broker.region.cursors.StoreQueueCursor.gc() | CORRECTNESS | 274 | Medium | NP_NULL_ON_SOME_PATH |

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| Possible null pointer dereference of StoreQueueCursor.persistent in org.apache.activemq.broker.region.cursors.StoreQueueCursor.gc() | CORRECTNESS | 274 | Medium | NP_NULL_ON_SOME_PATH |
| Null passed for nonnull parameter of new QueueStorePrefetch(Queue) in new org.apache.activemq.broker.region.cursors.StoreQueueCursor(Broker, Queue) | CORRECTNESS | 50 | High | NP_NULL_PARAM_DEREF |
| org.apache.activemq.broker.region.virtual.VirtualDestinationInterceptor | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.region.virtual.VirtualDestinationInterceptor.getVirtualDestinations() may expose internal representation by returning VirtualDestinationInterceptor.virtualDestinations | MALICIOUS_CODE | 76 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.broker.region.virtual.VirtualDestinationInterceptor.setVirtualDestinations(VirtualDestination[]) may expose internal representation by storing an externally mutable object into VirtualDestinationInterceptor.virtualDestinations | MALICIOUS_CODE | 81 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.broker.scheduler.CronParser | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.scheduler.CronParser.isCurrent(CronParser\$CronEntry, int) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 223 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.broker.scheduler.JobImpl | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.broker.scheduler.JobImpl.getPayload() may expose internal representation by returning JobImpl.payload | MALICIOUS_CODE | 40 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.broker.scheduler.JobLocation | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.broker.scheduler.JobLocation.nextTime; locked 50% of time | MT_CORRECTNESS | 54 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.broker.scheduler.JobSchedulerImpl | | | | |
| Bug | Category | Line | Priority | Details |
| Exception is caught when Exception is not thrown in org.apache.activemq.broker.scheduler.JobSchedulerImpl.mainLoop() | STYLE | 541 | Medium | REC_CATCH_EXCEPTION |
| org.apache.activemq.broker.scheduler.JobSchedulerImpl\$ScheduleTime | | | | |
| Bug | Category | Line | Priority | Details |
| Unread field: org.apache.activemq.broker.scheduler.JobSchedulerImpl\$ScheduleTime.DEFAULT_NEW_JOB_WAIT; should this field be static? | PERFORMANCE | 628 | Medium | SS_SHOULD_BE_STATIC |
| Unread field: org.apache.activemq.broker.scheduler.JobSchedulerImpl\$ScheduleTime.DEFAULT_WAIT; should this field be static? | PERFORMANCE | 627 | Medium | SS_SHOULD_BE_STATIC |
| org.apache.activemq.broker.scheduler.JobSchedulerStore | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.broker.scheduler.JobSchedulerStore.directory; locked 75% of time | MT_CORRECTNESS | 174 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.broker.scheduler.JobSchedulerStore.journal; locked 90% of time | MT_CORRECTNESS | 182 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.broker.scheduler.JobSchedulerStore\$JobSchedulerMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.broker.scheduler.JobSchedulerStore\$JobSchedulerMarshaller be a _static_ inner class? | PERFORMANCE | 153 | Medium | SIC_INNER_SHOULD_BE_STATIC |
| org.apache.activemq.broker.scheduler.JobSchedulerStore\$ValueMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.broker.scheduler.JobSchedulerStore\$ValueMarshaller be a _static_ inner class? | PERFORMANCE | 133 | Medium | SIC_INNER_SHOULD_BE_STATIC |
| org.apache.activemq.broker.scheduler.SchedulerBroker | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.broker.scheduler.SchedulerBroker.scheduler; locked 50% of time | MT_CORRECTNESS | 99 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.broker.view.ConnectionDotFileInterceptor | | | | |
| Bug | Category | Line | Priority | Details |
| Unread field: org.apache.activemq.broker.view.ConnectionDotFileInterceptor.domain | PERFORMANCE | 50 | Medium | URF_UNREAD_FIELD |
| org.apache.activemq.broker.view.DotFileInterceptorSupport | | | | |
| Bug | Category | Line | Priority | Details |
| Found reliance on default encoding in org.apache.activemq.broker.view.DotFileInterceptorSupport.generateFile(): new java.io.FileWriter(String) | I18N | 46 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.command.ActiveMQDestination | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ActiveMQDestination.getCompositeDestinations() may expose internal representation by returning ActiveMQDestination.compositeDestinations | MALICIOUS_CODE | 185 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.ActiveMQDestination.getDestinationPaths() may expose internal representation by returning ActiveMQDestination.destinationPaths | MALICIOUS_CODE | 283 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.ActiveMQDestination.setCompositeDestinations(ActiveMQDestination[]) may expose internal representation by storing an externally mutable object into ActiveMQDestination.compositeDestinations | MALICIOUS_CODE | 189 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.ActiveMQDestination.unresolvableDestinationTransformer should be package protected | MALICIOUS_CODE | 75 | Medium | MS_PKGPROTECT |
| org.apache.activemq.command.ActiveMQMessage | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ActiveMQObjectMessage | | | | |
| Bug | Category | Line | Priority | Details |

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| org.apache.activemq.command.ActiveMQObjectMessage.getObject() may fail to close stream | BAD_PRACTICE | 183 | Medium | OS_OPEN_STREAM |
| org.apache.activemq.command.ActiveMQStreamMessage | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ActiveMQStreamMessage.readString() invokes inefficient new Byte(byte) constructor; use Byte.valueOf(byte) instead | PERFORMANCE | 627 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.command.ActiveMQStreamMessage.readString() invokes inefficient new Character(char) constructor; use Character.valueOf(char) instead | PERFORMANCE | 639 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.command.ActiveMQStreamMessage.readString() invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 621 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.command.ActiveMQStreamMessage.readString() invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 618 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.command.ActiveMQStreamMessage.readString() invokes inefficient new Short(short) constructor; use Short.valueOf(short) instead | PERFORMANCE | 624 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.command.BrokerId | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.BrokerId.equals(Object) fails for subtypes | BAD_PRACTICE | 43 | Medium | EQ_GETCLASS_AND_CLASS_CONSTANT |
| org.apache.activemq.command.BrokerInfo | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.BrokerInfo.getPeerBrokerInfos() may expose internal representation by returning BrokerInfo.peerBrokerInfos | MALICIOUS_CODE | 107 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.BrokerInfo.setPeerBrokerInfos(BrokerInfo[]) may expose internal representation by storing an externally mutable object into BrokerInfo.peerBrokerInfos | MALICIOUS_CODE | 111 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.ConnectionControl | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ConnectionControl.getToken() may expose internal representation by returning ConnectionControl.token | MALICIOUS_CODE | 176 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.ConnectionControl.setToken(byte[]) may expose internal representation by storing an externally mutable object into ConnectionControl.token | MALICIOUS_CODE | 183 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.ConnectionId | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ConnectionId.equals(Object) fails for subtypes | BAD_PRACTICE | 60 | Medium | EQ_GETCLASS_AND_CLASS_CONSTANT |
| org.apache.activemq.command.ConnectionInfo | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ConnectionInfo.getBrokerPath() may expose internal representation by returning ConnectionInfo.brokerPath | MALICIOUS_CODE | 131 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.ConnectionInfo.setBrokerPath(BrokerId[]) may expose internal representation by storing an externally mutable object into ConnectionInfo.brokerPath | MALICIOUS_CODE | 135 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.ConsumerId | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ConsumerId.equals(Object) fails for subtypes | BAD_PRACTICE | 68 | Medium | EQ_GETCLASS_AND_CLASS_CONSTANT |
| org.apache.activemq.command.ConsumerInfo | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ConsumerInfo.getBrokerPath() may expose internal representation by returning ConsumerInfo.brokerPath | MALICIOUS_CODE | 308 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.ConsumerInfo.setBrokerPath(BrokerId[]) may expose internal representation by storing an externally mutable object into ConsumerInfo.brokerPath | MALICIOUS_CODE | 312 | Medium | EI_EXPOSE_REP2 |
| Inconsistent synchronization of org.apache.activemq.command.ConsumerInfo.networkConsumerIds; locked 52% of time | MT_CORRECTNESS | 432 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.command.DataArrayResponse | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.DataArrayResponse.getData() may expose internal representation by returning DataArrayResponse.data | MALICIOUS_CODE | 45 | Medium | EI_EXPOSE_REP |
| new org.apache.activemq.command.DataArrayResponse(DataStructure[]) may expose internal representation by storing an externally mutable object into DataArrayResponse.data | MALICIOUS_CODE | 34 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.DataArrayResponse.setData(DataStructure[]) may expose internal representation by storing an externally mutable object into DataArrayResponse.data | MALICIOUS_CODE | 49 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.DestinationInfo | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.DestinationInfo.getBrokerPath() may expose internal representation by returning DestinationInfo.brokerPath | MALICIOUS_CODE | 113 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.DestinationInfo.setBrokerPath(BrokerId[]) may expose internal representation by storing an externally mutable object into DestinationInfo.brokerPath | MALICIOUS_CODE | 117 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.LocalTransactionId | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.LocalTransactionId.equals(Object) fails for subtypes | BAD_PRACTICE | 75 | Medium | EQ_GETCLASS_AND_CLASS_CONSTANT |
| org.apache.activemq.command.Message | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.Message.getBrokerPath() may expose internal representation by returning Message.brokerPath | MALICIOUS_CODE | 518 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.Message.getCluster() may expose internal representation by returning Message.cluster | MALICIOUS_CODE | 713 | Medium | EI_EXPOSE_REP |

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| org.apache.activemq.command.Message.setBrokerPath(BrokerId[]) may expose internal representation by storing an externally mutable object into Message.brokerPath | MALICIOUS_CODE | 522 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.Message.setCluster(BrokerId[]) may expose internal representation by storing an externally mutable object into Message.cluster | MALICIOUS_CODE | 717 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.MessageAck | | | | |
| Bug | Category | Line | Priority | Details |
| Unused public or protected field: org.apache.activemq.command.MessageAck.consumerKey | STYLE | | Medium | UUF_UNUSED_PUBLIC_OR_PROTECTED_FIELD |
| org.apache.activemq.command.PartialCommand | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.PartialCommand.getData() may expose internal representation by returning PartialCommand.data | MALICIOUS_CODE | 62 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.PartialCommand.setData(byte[]) may expose internal representation by storing an externally mutable object into PartialCommand.data | MALICIOUS_CODE | 66 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.ProducerId | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ProducerId.equals(Object) fails for subtypes | BAD_PRACTICE | 78 | Medium | EQ_GETCLASS_AND_CLASS_CONSTANT |
| org.apache.activemq.command.ProducerInfo | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.ProducerInfo.getBrokerPath() may expose internal representation by returning ProducerInfo.brokerPath | MALICIOUS_CODE | 97 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.ProducerInfo.setBrokerPath(BrokerId[]) may expose internal representation by storing an externally mutable object into ProducerInfo.brokerPath | MALICIOUS_CODE | 101 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.SessionId | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.SessionId.equals(Object) fails for subtypes | BAD_PRACTICE | 76 | Medium | EQ_GETCLASS_AND_CLASS_CONSTANT |
| org.apache.activemq.command.WireFormatInfo | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.WireFormatInfo.setCacheSize(int) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 294 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.command.WireFormatInfo.setMaxFrameSize(long) invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 280 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.command.WireFormatInfo.setMaxInactivityDuration(long) invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 262 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.command.WireFormatInfo.setMaxInactivityDurationInitalDelay(long) invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 271 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.command.WireFormatInfo.getMagic() may expose internal representation by returning WireFormatInfo.magic | MALICIOUS_CODE | 67 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.WireFormatInfo.setMagic(byte[]) may expose internal representation by storing an externally mutable object into WireFormatInfo.magic | MALICIOUS_CODE | 71 | Medium | EI_EXPOSE_REP2 |
| Suspicious comparison of Boolean references in org.apache.activemq.command.WireFormatInfo.isCacheEnabled() | BAD_PRACTICE | 202 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| Suspicious comparison of Boolean references in org.apache.activemq.command.WireFormatInfo.isSizePrefixDisabled() | BAD_PRACTICE | 235 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| Suspicious comparison of Boolean references in org.apache.activemq.command.WireFormatInfo.isStackTraceEnabled() | BAD_PRACTICE | 213 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| Suspicious comparison of Boolean references in org.apache.activemq.command.WireFormatInfo.isTcpNoDelayEnabled() | BAD_PRACTICE | 224 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| Suspicious comparison of Boolean references in org.apache.activemq.command.WireFormatInfo.isTightEncodingEnabled() | BAD_PRACTICE | 246 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| org.apache.activemq.command.XATransactionId | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.command.XATransactionId.getBranchQualifier() may expose internal representation by returning XATransactionId.branchQualifier | MALICIOUS_CODE | 148 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.XATransactionId.getEncodedXidBytes() may expose internal representation by returning XATransactionId.encodedXidBytes | MALICIOUS_CODE | 94 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.command.XATransactionId.getGlobalTransactionId() may expose internal representation by returning XATransactionId.globalTransactionId | MALICIOUS_CODE | 141 | Medium | EI_EXPOSE_REP |
| new org.apache.activemq.command.XATransactionId(byte[]) may expose internal representation by storing an externally mutable object into XATransactionId.encodedXidBytes | MALICIOUS_CODE | 54 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.XATransactionId.setBranchQualifier(byte[]) may expose internal representation by storing an externally mutable object into XATransactionId.branchQualifier | MALICIOUS_CODE | 152 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.XATransactionId.setGlobalTransactionId(byte[]) may expose internal representation by storing an externally mutable object into XATransactionId.globalTransactionId | MALICIOUS_CODE | 162 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.command.XATransactionId.equals(Object) fails for subtypes | BAD_PRACTICE | 187 | Medium | EQ_GETCLASS_AND_CLASS_CONSTANT |
| Inconsistent synchronization of org.apache.activemq.command.XATransactionId.encodedXidBytes; locked 75% of time | MT_CORRECTNESS | 65 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.command.XATransactionId.initFromEncodedBytes() may fail to close stream | BAD_PRACTICE | 65 | Medium | OS_OPEN_STREAM |
| org.apache.activemq.command.XATransactionId.initFromEncodedBytes() ignores result of org.apache.activemq.util.DataByteArrayInputStream.read(byte[]) | BAD_PRACTICE | 71 | Medium | RR_NOT_CHECKED |
| org.apache.activemq.command.XATransactionId.initFromEncodedBytes() ignores result of org.apache.activemq.util.DataByteArrayInputStream.skipBytes(int) | BAD_PRACTICE | 66 | Medium | SR_NOT_CHECKED |
| org.apache.activemq.filter.AnyDestination | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.filter.AnyDestination is Externalizable but doesn't define a void constructor | BAD_PRACTICE | 29 | Medium | SE_NO_SUITABLE_CONSTRUCTOR_FOR_EXTERNALIZATION |
| org.apache.activemq.filter.ArithmeticExpression | | | | |
| Bug | Category | Line | Priority | Details |

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| org.apache.activemq.filter.ArithmeticExpression.minus(Number, Number) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 136 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.filter.ArithmeticExpression.minus(Number, Number) invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 138 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.filter.ArithmeticExpression.multiply(Number, Number) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 147 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.filter.ArithmeticExpression.multiply(Number, Number) invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 149 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.filter.ArithmeticExpression.plus(Number, Number) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 125 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.filter.ArithmeticExpression.plus(Number, Number) invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 127 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.filter.ComparisonExpression | | | | |
| Bug | Category | Line | Priority | Details |
| Boxed value is unboxed and then immediately reboxed in org.apache.activemq.filter.ComparisonExpression.compare(Comparable, Comparable) | PERFORMANCE | 362 | Medium | BX_UNBOXING_IMMEDIATELY_REBOXED |
| Suspicious comparison of Boolean references in org.apache.activemq.filter.ComparisonExpression.matches(MessageEvaluationContext) | BAD_PRACTICE | 476 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| org.apache.activemq.filter.ComparisonExpression\$LikeExpression | | | | |
| Bug | Category | Line | Priority | Details |
| new org.apache.activemq.filter.ComparisonExpression\$LikeExpression(Expression, String, int) invokes inefficient new Character(char) constructor; use Character.valueOf(char) instead | PERFORMANCE | 102 | Medium | DM_NUMBER_CTOR |
| Suspicious comparison of Boolean references in org.apache.activemq.filter.ComparisonExpression\$LikeExpression.matches(MessageEvaluationContext) | BAD_PRACTICE | 143 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| org.apache.activemq.filter.ConstantExpression\$BooleanConstantExpression | | | | |
| Bug | Category | Line | Priority | Details |
| Suspicious comparison of Boolean references in org.apache.activemq.filter.ConstantExpression\$BooleanConstantExpression.matches(MessageEvaluationContext) | BAD_PRACTICE | 37 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| org.apache.activemq.filter.DestinationMap | | | | |
| Bug | Category | Line | Priority | Details |
| instanceof will always return true for all nonnull values in org.apache.activemq.filter.DestinationMap.get(ActiveMQDestination), since all java.util.Set are instances of java.util.Set | STYLE | 68 | Medium | BC_VACUOUS_INSTANCEOF |
| org.apache.activemq.filter.LogicExpression | | | | |
| Bug | Category | Line | Priority | Details |
| Suspicious comparison of Boolean references in org.apache.activemq.filter.LogicExpression.matches(MessageEvaluationContext) | BAD_PRACTICE | 86 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| org.apache.activemq.filter.MultiExpressionEvaluator\$CacheExpression | | | | |
| Bug | Category | Line | Priority | Details |
| Equals method for org.apache.activemq.filter.MultiExpressionEvaluator\$CacheExpression assumes the argument is of type MultiExpressionEvaluator\$CacheExpression | BAD_PRACTICE | 112 | Medium | BC_EQUALS_METHOD_SHOULD_WORK_FOR_ALL_OBJECTS |
| org.apache.activemq.filter.PrefixDestinationFilter | | | | |
| Bug | Category | Line | Priority | Details |
| new org.apache.activemq.filter.PrefixDestinationFilter(String[], byte) may expose internal representation by storing an externally mutable object into PrefixDestinationFilter.prefixes | MALICIOUS_CODE | 39 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.filter.PropertyExpression\$13 | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.filter.PropertyExpression\$13.evaluate(Message) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 134 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.filter.UnaryExpression | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.filter.UnaryExpression.negate(Number) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 184 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.filter.UnaryExpression.negate(Number) invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 186 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.filter.UnaryExpression\$BooleanUnaryExpression | | | | |
| Bug | Category | Line | Priority | Details |
| Suspicious comparison of Boolean references in org.apache.activemq.filter.UnaryExpression\$BooleanUnaryExpression.matches(MessageEvaluationContext) | BAD_PRACTICE | 130 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| org.apache.activemq.filter.XPathExpression | | | | |
| Bug | Category | Line | Priority | Details |
| Suspicious comparison of Boolean references in org.apache.activemq.filter.XPathExpression.matches(MessageEvaluationContext) | BAD_PRACTICE | 118 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| org.apache.activemq.filter.XQueryExpression | | | | |
| Bug | Category | Line | Priority | Details |
| Suspicious comparison of Boolean references in org.apache.activemq.filter.XQueryExpression.matches(MessageEvaluationContext) | BAD_PRACTICE | 47 | Medium | RC_REF_COMPARISON_BAD_PRACTICE_BOOLEAN |
| org.apache.activemq.kaha.ContainerId | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.kaha.ContainerId.equals(Object) fails for subtypes | BAD_PRACTICE | 63 | Medium | EQ_GETCLASS_AND_CLASS_CONSTANT |

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| org.apache.activemq.kaha.impl.KahaStore | | | | |
| Bug | Category | Line | Priority | Details |
| Synchronization on interned String in org.apache.activemq.kaha.impl.KahaStore.lock() | MT_CORRECTNESS | 496 | Medium | DL_SYNCHRONIZATION_ON_SHARED_CONSTANT |
| Synchronization on interned String in org.apache.activemq.kaha.impl.KahaStore.unlock() | MT_CORRECTNESS | 516 | Medium | DL_SYNCHRONIZATION_ON_SHARED_CONSTANT |
| org.apache.activemq.kaha.impl.async.AsyncDataManager | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.async.AsyncDataManager.accessorPool; locked 86% of time | MT_CORRECTNESS | 677 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.async.AsyncDataManager.currentWriteFile; locked 92% of time | MT_CORRECTNESS | 117 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.async.AsyncDataManager.directory; locked 66% of time | MT_CORRECTNESS | 686 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.async.AsyncDataManager.filePrefix; locked 75% of time | MT_CORRECTNESS | 694 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.kaha.impl.async.AsyncDataManager.ITEM_HEAD_EOR should be package protected | MALICIOUS_CODE | 65 | Medium | MS_PKGPROTECT |
| org.apache.activemq.kaha.impl.async.AsyncDataManager.ITEM_HEAD_SOR should be package protected | MALICIOUS_CODE | 64 | Medium | MS_PKGPROTECT |
| Suspicious comparison of Integer references in org.apache.activemq.kaha.impl.async.AsyncDataManager consolidateDataFilesNotIn(Set, Set) | CORRECTNESS | 435 | High | RC_REF_COMPARISON |
| org.apache.activemq.kaha.impl.async.DataFile | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.async.DataFile.length; locked 71% of time | MT_CORRECTNESS | 60 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.kaha.impl.async.DataFileAccessorPool\$Pool | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.async.DataFileAccessorPool\$Pool.openCounter; locked 60% of time | MT_CORRECTNESS | 58 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.async.DataFileAccessorPool\$Pool.used; locked 66% of time | MT_CORRECTNESS | 57 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.kaha.impl.async.DataFileAppender | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.kaha.impl.async.DataFileAppender.processQueue() may fail to close stream | BAD_PRACTICE | 312 | Medium | OS_OPEN_STREAM |
| Redundant nullcheck of org.apache.activemq.kaha.impl.async.DataFileAppender.nextWriteBatch, which is known to be non-null in org.apache.activemq.kaha.impl.async.DataFileAppender.enqueue(DataFile, DataFileAppender\$WriteCommand) | STYLE | 256 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NONNULL_VALUE |
| org.apache.activemq.kaha.impl.async.JournalFacade\$RecordLocationFacade | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.kaha.impl.async.JournalFacade\$RecordLocationFacade defines compareTo(Object) and uses Object.equals() | BAD_PRACTICE | 50 | Medium | EQ_COMPARETO_USE_OBJECT_EQUALS |
| org.apache.activemq.kaha.impl.async.ReadOnlyAsyncDataManager | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.kaha.impl.container.BaseContainerImpl | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.container.BaseContainerImpl.indexList; locked 96% of time | MT_CORRECTNESS | 91 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.container.BaseContainerImpl.loaded; locked 92% of time | MT_CORRECTNESS | 161 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.container.BaseContainerImpl.root; locked 56% of time | MT_CORRECTNESS | 190 | Medium | IS2_INCONSISTENT_SYNC |
| Repeated conditional test in org.apache.activemq.kaha.impl.container.BaseContainerImpl.init() | CORRECTNESS | 67 | Medium | RpC_REPEATED_CONDITIONAL_TEST |
| org.apache.activemq.kaha.impl.container.ListContainerImpl | | | | |
| Bug | Category | Line | Priority | Details |
| Repeated conditional test in org.apache.activemq.kaha.impl.container.ListContainerImpl.load() | CORRECTNESS | 62 | Medium | RpC_REPEATED_CONDITIONAL_TEST |
| org.apache.activemq.kaha.impl.container.MapContainerImpl | | | | |
| Bug | Category | Line | Priority | Details |
| Repeated conditional test in org.apache.activemq.kaha.impl.container.MapContainerImpl.load() | CORRECTNESS | 101 | Medium | RpC_REPEATED_CONDITIONAL_TEST |
| org.apache.activemq.kaha.impl.index.DiskIndexLinkedList | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.DiskIndexLinkedList.root; locked 93% of time | MT_CORRECTNESS | 46 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.kaha.impl.index.VMIndexLinkedList | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.VMIndexLinkedList.root; locked 95% of time | MT_CORRECTNESS | 40 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.kaha.impl.index.hash.HashBin | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.kaha.impl.index.hash.HashBin.dump() concatenates strings using + in a loop | PERFORMANCE | 328 | Medium | SBSC_USE_STRINGBUFFER_CONCATENATION |
| org.apache.activemq.kaha.impl.index.hash.HashEntry | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.kaha.impl.index.hash.HashEntry.equals(Object) is unusual | STYLE | 45 | Medium | EQ_UNUSUAL |

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| org.apache.activemq.kaha.impl.index.hash.HashIndex | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.hash.HashIndex.dataIn; locked 71% of time | MT_CORRECTNESS | 420 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.hash.HashIndex.file; locked 81% of time | MT_CORRECTNESS | 512 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.hash.HashIndex.indexFile; locked 65% of time | MT_CORRECTNESS | 364 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.hash.HashIndex.keyMarshaller; locked 80% of time | MT_CORRECTNESS | 392 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.hash.HashIndex.keysPerPage; locked 66% of time | MT_CORRECTNESS | 359 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.hash.HashIndex.numberOfBins; locked 62% of time | MT_CORRECTNESS | 151 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.hash.HashIndex.pageSize; locked 82% of time | MT_CORRECTNESS | 363 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.hash.HashIndex.readBuffer; locked 71% of time | MT_CORRECTNESS | 419 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.hash.HashIndex.size; locked 75% of time | MT_CORRECTNESS | 520 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.kaha.impl.index.hash.HashIndex.threshold; locked 66% of time | MT_CORRECTNESS | 191 | Medium | IS2_INCONSISTENT_SYNC |
| exceptional return value of java.io.File.delete() ignored in org.apache.activemq.kaha.impl.index.hash.HashIndex.delete() | BAD_PRACTICE | 332 | Medium | RV_RETURN_VALUE_IGNORED_BAD_PRACTICE |
| org.apache.activemq.kaha.impl.index.tree.TreeEntry | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.kaha.impl.index.tree.TreeEntry.equals(Object) is unusual | STYLE | 47 | Medium | EQ_UNUSUAL |
| org.apache.activemq.kaha.impl.index.tree.TreeIndex | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to result in org.apache.activemq.kaha.impl.index.tree.TreeIndex.delete() | STYLE | 253 | Medium | DLS_DEAD_LOCAL_STORE |
| Redundant nullcheck of org.apache.activemq.kaha.impl.index.tree.TreeIndex.firstFree, which is known to be non-null in org.apache.activemq.kaha.impl.index.tree.TreeIndex.getNextFreePage() | STYLE | 334 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NONNULL_VALUE |
| org.apache.activemq.management.JCAStatsImpl | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.management.JCAStatsImpl.getConnectionPools() may expose internal representation by returning JCAStatsImpl.connectionPoolStats | MALICIOUS_CODE | 39 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.management.JCAStatsImpl.getConnections() may expose internal representation by returning JCAStatsImpl.connectionStats | MALICIOUS_CODE | 35 | Medium | EI_EXPOSE_REP |
| new org.apache.activemq.management.JCAStatsImpl(JCAConnectionStatsImpl[], JCAConnectionPoolStatsImpl[]) may expose internal representation by storing an externally mutable object into JCAStatsImpl.connectionPoolStats | MALICIOUS_CODE | 31 | Medium | EI_EXPOSE_REP2 |
| new org.apache.activemq.management.JCAStatsImpl(JCAConnectionStatsImpl[], JCAConnectionPoolStatsImpl[]) may expose internal representation by storing an externally mutable object into JCAStatsImpl.connectionStats | MALICIOUS_CODE | 30 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.management.TimeStatisticImpl | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.management.TimeStatisticImpl.parent; locked 50% of time | MT_CORRECTNESS | 151 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.network.DemandForwardingBridgeSupport | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.network.DemandForwardingBridgeSupport.getDurableDestinations() may expose internal representation by returning DemandForwardingBridgeSupport.durableDestinations | MALICIOUS_CODE | 851 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.network.DemandForwardingBridgeSupport.getDynamicallyIncludedDestinations() may expose internal representation by returning DemandForwardingBridgeSupport.dynamicallyIncludedDestinations | MALICIOUS_CODE | 807 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.network.DemandForwardingBridgeSupport.getExcludedDestinations() may expose internal representation by returning DemandForwardingBridgeSupport.excludedDestinations | MALICIOUS_CODE | 822 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.network.DemandForwardingBridgeSupport.getStaticallyIncludedDestinations() may expose internal representation by returning DemandForwardingBridgeSupport.staticallyIncludedDestinations | MALICIOUS_CODE | 836 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.network.DemandForwardingBridgeSupport.setDurableDestinations(ActiveMQDestination[]) may expose internal representation by storing an externally mutable object into DemandForwardingBridgeSupport.durableDestinations | MALICIOUS_CODE | 858 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.network.DemandForwardingBridgeSupport.setDynamicallyIncludedDestinations(ActiveMQDestination[]) may expose internal representation by storing an externally mutable object into DemandForwardingBridgeSupport.dynamicallyIncludedDestinations | MALICIOUS_CODE | 815 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.network.DemandForwardingBridgeSupport.setExcludedDestinations(ActiveMQDestination[]) may expose internal representation by storing an externally mutable object into DemandForwardingBridgeSupport.excludedDestinations | MALICIOUS_CODE | 829 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.network.DemandForwardingBridgeSupport.setStaticallyIncludedDestinations(ActiveMQDestination[]) may expose internal representation by storing an externally mutable object into DemandForwardingBridgeSupport.staticallyIncludedDestinations | MALICIOUS_CODE | 844 | Medium | EI_EXPOSE_REP2 |
| Inconsistent synchronization of org.apache.activemq.network.DemandForwardingBridgeSupport.demandConsumerInfo; locked 71% of time | MT_CORRECTNESS | 540 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.network.DemandForwardingBridgeSupport.localConnectionInfo; locked 80% of time | MT_CORRECTNESS | 1142 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.network.DemandForwardingBridgeSupport.producerInfo; locked 75% of time | MT_CORRECTNESS | 679 | Medium | IS2_INCONSISTENT_SYNC |
| Switch statement found in org.apache.activemq.network.DemandForwardingBridgeSupport.getRegionSubscriptions(ActiveMQDestination) where default case is missing | STYLE | 1102 | Medium | SF_SWITCH_NO_DEFAULT |
| org.apache.activemq.network.DemandSubscription | | | | |
| Bug | Category | Line | Priority | Details |
| Synchronization performed on java.util.concurrent.atomic.AtomicBoolean in org.apache.activemq.network.DemandSubscription.decrementOutstandingResponses() | MT_CORRECTNESS | 118 | Medium | JLM_JSR166_UTILCONCURRENT_MONITORENTER |
| Synchronization performed on java.util.concurrent.atomic.AtomicBoolean in org.apache.activemq.network.DemandSubscription.waitForCompletion() | MT_CORRECTNESS | 102 | Medium | JLM_JSR166_UTILCONCURRENT_MONITORENTER |
| Unconditional wait in org.apache.activemq.network.DemandSubscription.waitForCompletion() | MT_CORRECTNESS | 104 | Medium | UW_UNCOND_WAIT |
| Wait not in loop in org.apache.activemq.network.DemandSubscription.waitForCompletion() | MT_CORRECTNESS | 104 | Medium | WA_NOT_IN_LOOP |
| org.apache.activemq.network.DiscoveryNetworkConnector | | | | |
| Bug | Category | Line | Priority | Details |
| Synchronization performed on java.util.concurrent.ConcurrentHashMap in org.apache.activemq.network.DiscoveryNetworkConnector.onServiceAdd(DiscoveryEvent) | MT_CORRECTNESS | 89 | Medium | JLM_JSR166_UTILCONCURRENT_MONITORENTER |

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| Synchronization performed on java.util.concurrent.ConcurrentHashMap in org.apache.activemq.network.DiscoveryNetworkConnector.onServiceAdd(DiscoveryEvent) | MT_CORRECTNESS | 152 | Medium | JLM JSR166 UTILCONCURRENT MONITORENTER |
| Synchronization performed on java.util.concurrent.ConcurrentHashMap in org.apache.activemq.network.DiscoveryNetworkConnector.onServiceRemove(DiscoveryEvent) | MT_CORRECTNESS | 184 | Medium | JLM JSR166 UTILCONCURRENT MONITORENTER |
| org.apache.activemq.network.ForwardingBridge | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.network.ForwardingBridge.localBrokerInfo; locked 40% of time | MT_CORRECTNESS | 377 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.network.ForwardingBridge.remoteBrokerInfo; locked 40% of time | MT_CORRECTNESS | 381 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.network.jms.JmsQueueConnector | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.network.jms.JmsQueueConnector.getInboundQueueBridges() may expose internal representation by returning JmsQueueConnector.inboundQueueBridges | MALICIOUS_CODE | 51 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.network.jms.JmsQueueConnector.getOutboundQueueBridges() may expose internal representation by returning JmsQueueConnector.outboundQueueBridges | MALICIOUS_CODE | 65 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.network.jms.JmsQueueConnector.setInboundQueueBridges(InboundQueueBridge[]) may expose internal representation by storing an externally mutable object into JmsQueueConnector.inboundQueueBridges | MALICIOUS_CODE | 58 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.network.jms.JmsQueueConnector.setOutboundQueueBridges(OutboundQueueBridge[]) may expose internal representation by storing an externally mutable object into JmsQueueConnector.outboundQueueBridges | MALICIOUS_CODE | 72 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.network.jms.JmsTopicConnector | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.network.jms.JmsTopicConnector.getInboundTopicBridges() may expose internal representation by returning JmsTopicConnector.inboundTopicBridges | MALICIOUS_CODE | 51 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.network.jms.JmsTopicConnector.getOutboundTopicBridges() may expose internal representation by returning JmsTopicConnector.outboundTopicBridges | MALICIOUS_CODE | 65 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.network.jms.JmsTopicConnector.setInboundTopicBridges(InboundTopicBridge[]) may expose internal representation by storing an externally mutable object into JmsTopicConnector.inboundTopicBridges | MALICIOUS_CODE | 58 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.network.jms.JmsTopicConnector.setOutboundTopicBridges(OutboundTopicBridge[]) may expose internal representation by storing an externally mutable object into JmsTopicConnector.outboundTopicBridges | MALICIOUS_CODE | 72 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.network.jms.QueueBridge | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.network.jms.QueueBridge.producerConnection; locked 50% of time | MT_CORRECTNESS | 129 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.network.jms.QueueBridge.producerSession; locked 40% of time | MT_CORRECTNESS | 49 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.network.jms.TopicBridge | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.network.jms.TopicBridge.producerConnection; locked 50% of time | MT_CORRECTNESS | 153 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.network.jms.TopicBridge.producerSession; locked 40% of time | MT_CORRECTNESS | 51 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.openwire.CommandIdComparator | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.openwire.CommandIdComparator implements Comparator but not Serializable | BAD_PRACTICE | 28 | Medium | SE_COMPARATOR_SHOULD_BE_SERIALIZABLE |
| org.apache.activemq.openwire.OpenWireFormat | | | | |
| Bug | Category | Line | Priority | Details |
| Equals method for org.apache.activemq.openwire.OpenWireFormat assumes the argument is of type OpenWireFormat | BAD_PRACTICE | 98 | Medium | BC_EQUALS_METHOD_SHOULD_WORK_FOR_ALL_OBJECTS |
| org.apache.activemq.openwire.OpenWireFormat.addToMarshallCache(DataStructure) invokes inefficient new Short(short) constructor; use Short.valueOf(short) instead | PERFORMANCE | 529 | Medium | DM_NUMBER_CTOR |
| Redundant nullcheck of sequence which is known to be null in org.apache.activemq.openwire.OpenWireFormat.tightMarshalNestedObject1(DataStructure, BooleanStream) | STYLE | 396 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NULL_VALUE |
| org.apache.activemq.openwire.v1.BaseDataStreamMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.openwire.v1.BaseDataStreamMarshaller.looseUnmarsalThrowable(OpenWireFormat, DataInput) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 520 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.openwire.v1.BaseDataStreamMarshaller.tightUnmarsalThrowable(OpenWireFormat, DataInput, BooleanStream) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 199 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.openwire.v1.ConnectionControlMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v1.ConnectionControlMarshaller.tightMarshal2(OpenWireFormat, Object, DataOutput, BooleanStream) | STYLE | 106 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v1.IntegerResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v1.IntegerResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 80 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v1.MarshallerFactory | | | | |
| Bug | Category | Line | Priority | Details |
| public static org.apache.activemq.openwire.v1.MarshallerFactory.createMarshallerMap(OpenWireFormat) may expose internal representation by returning MarshallerFactory.MARSHALLER | MALICIOUS_CODE | 103 | Medium | MS_EXPOSE_REP |
| org.apache.activemq.openwire.v1.ReplayCommandMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v1.ReplayCommandMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 81 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v1.ResponseMarshaller | | | | |

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| Bug Dead store to info in org.apache.activemq.openwire.v1.ResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | Category STYLE | Line 80 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v2.ConnectionControlMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v2.ConnectionControlMarshaller.tightMarshal2(OpenWireFormat, Object, DataOutput, BooleanStream) | Category STYLE | Line 106 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v2.IntegerResponseMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v2.IntegerResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | Category STYLE | Line 80 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v2.MarshallerFactory | | | | |
| Bug public static org.apache.activemq.openwire.v2.MarshallerFactory.createMarshallerMap(OpenWireFormat) may expose internal representation by returning MarshallerFactory.MARSHALLER | Category MALICIOUS_CODE | Line 107 | Priority Medium | Details MS_EXPOSE_REP |
| org.apache.activemq.openwire.v2.ReplayCommandMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v2.ReplayCommandMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | Category STYLE | Line 81 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v2.ResponseMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v2.ResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | Category STYLE | Line 80 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v3.ConnectionControlMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v3.ConnectionControlMarshaller.tightMarshal2(OpenWireFormat, Object, DataOutput, BooleanStream) | Category STYLE | Line 106 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v3.IntegerResponseMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v3.IntegerResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | Category STYLE | Line 80 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v3.MarshallerFactory | | | | |
| Bug public static org.apache.activemq.openwire.v3.MarshallerFactory.createMarshallerMap(OpenWireFormat) may expose internal representation by returning MarshallerFactory.MARSHALLER | Category MALICIOUS_CODE | Line 109 | Priority Medium | Details MS_EXPOSE_REP |
| org.apache.activemq.openwire.v3.ReplayCommandMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v3.ReplayCommandMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | Category STYLE | Line 81 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v3.ResponseMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v3.ResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | Category STYLE | Line 80 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v4.ConnectionControlMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v4.ConnectionControlMarshaller.tightMarshal2(OpenWireFormat, Object, DataOutput, BooleanStream) | Category STYLE | Line 105 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v4.IntegerResponseMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v4.IntegerResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | Category STYLE | Line 79 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v4.MarshallerFactory | | | | |
| Bug public static org.apache.activemq.openwire.v4.MarshallerFactory.createMarshallerMap(OpenWireFormat) may expose internal representation by returning MarshallerFactory.marshaller | Category MALICIOUS_CODE | Line 107 | Priority Medium | Details MS_EXPOSE_REP |
| org.apache.activemq.openwire.v4.ReplayCommandMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v4.ReplayCommandMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | Category STYLE | Line 80 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v4.ResponseMarshaller | | | | |
| Bug Dead store to info in org.apache.activemq.openwire.v4.ResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | Category STYLE | Line 79 | Priority Medium | Details DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v5.ConnectionControlMarshaller | | | | |
| Bug | Category | Line | Priority | Details |

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| Dead store to info in org.apache.activemq.openwire.v5.ConnectionControlMarshaller.tightMarshal2(OpenWireFormat, Object, DataOutput, BooleanStream) | STYLE | 105 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v5.IntegerResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v5.IntegerResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 79 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v5.MarshallerFactory | | | | |
| Bug | Category | Line | Priority | Details |
| public static org.apache.activemq.openwire.v5.MarshallerFactory.createMarshallerMap(OpenWireFormat) may expose internal representation by returning MarshallerFactory.marshaller | MALICIOUS_CODE | 107 | Medium | MS_EXPOSE_REP |
| org.apache.activemq.openwire.v5.ReplayCommandMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v5.ReplayCommandMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 80 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v5.ResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v5.ResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 79 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v6.IntegerResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v6.IntegerResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 79 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v6.MarshallerFactory | | | | |
| Bug | Category | Line | Priority | Details |
| public static org.apache.activemq.openwire.v6.MarshallerFactory.createMarshallerMap(OpenWireFormat) may expose internal representation by returning MarshallerFactory.marshaller | MALICIOUS_CODE | 107 | Medium | MS_EXPOSE_REP |
| org.apache.activemq.openwire.v6.ReplayCommandMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v6.ReplayCommandMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 80 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v6.ResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v6.ResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 79 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v7.IntegerResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v7.IntegerResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 79 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v7.MarshallerFactory | | | | |
| Bug | Category | Line | Priority | Details |
| public static org.apache.activemq.openwire.v7.MarshallerFactory.createMarshallerMap(OpenWireFormat) may expose internal representation by returning MarshallerFactory.marshaller | MALICIOUS_CODE | 107 | Medium | MS_EXPOSE_REP |
| org.apache.activemq.openwire.v7.ReplayCommandMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v7.ReplayCommandMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 80 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v7.ResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v7.ResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 79 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v8.IntegerResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v8.IntegerResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 79 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v8.MarshallerFactory | | | | |
| Bug | Category | Line | Priority | Details |
| public static org.apache.activemq.openwire.v8.MarshallerFactory.createMarshallerMap(OpenWireFormat) may expose internal representation by returning MarshallerFactory.marshaller | MALICIOUS_CODE | 107 | Medium | MS_EXPOSE_REP |
| org.apache.activemq.openwire.v8.ReplayCommandMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v8.ReplayCommandMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 80 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v8.ResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v8.ResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 79 | Medium | DLS_DEAD_LOCAL_STORE |

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|--|----------------|------|----------|---|
| org.apache.activemq.openwire.v9.IntegerResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v9.IntegerResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 79 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v9.MarshallerFactory | | | | |
| Bug | Category | Line | Priority | Details |
| public static org.apache.activemq.openwire.v9.MarshallerFactory.createMarshallerMap(OpenWireFormat) may expose internal representation by returning MarshallerFactory.marshaller | MALICIOUS_CODE | 107 | Medium | MS_EXPOSE_REP |
| org.apache.activemq.openwire.v9.ReplayCommandMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v9.ReplayCommandMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 80 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.openwire.v9.ResponseMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.openwire.v9.ResponseMarshaller.tightMarshal1(OpenWireFormat, Object, BooleanStream) | STYLE | 79 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.plugin.DiscardingDLQBroker | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.plugin.DiscardingDLQBroker.getDestFilter() may expose internal representation by returning DiscardingDLQBroker.destFilter | MALICIOUS_CODE | 136 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.plugin.DiscardingDLQBroker.setDestFilter(Pattern[]) may expose internal representation by storing an externally mutable object into DiscardingDLQBroker.destFilter | MALICIOUS_CODE | 116 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.plugin.DiscardingDLQBroker.log isn't final but should be | MALICIOUS_CODE | 35 | High | MS_SHOULD_BE_FINAL |
| Possible null pointer dereference of msgRef in org.apache.activemq.plugin.DiscardingDLQBroker.sendToDeadLetterQueue(ConnectionContext, MessageReference, Subscription) | CORRECTNESS | 57 | High | NP_NULL_ON_SOME_PATH |
| Nullcheck of dest at line 59 of value previously dereferenced in org.apache.activemq.plugin.DiscardingDLQBroker.sendToDeadLetterQueue(ConnectionContext, MessageReference, Subscription) | CORRECTNESS | 59 | Medium | RCN_REDUNDANT_NULLCHECK_WOULD_HAVE_BEEN_A_NPE |
| org.apache.activemq.plugin.DiscardingDLQBrokerPlugin | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.plugin.DiscardingDLQBrokerPlugin.log isn't final but should be | MALICIOUS_CODE | 37 | High | MS_SHOULD_BE_FINAL |
| org.apache.activemq.plugin.StatisticsBroker | | | | |
| Bug | Category | Line | Priority | Details |
| Redundant nullcheck of file, which is known to be non-null in org.apache.activemq.plugin.StatisticsBroker.send(ProducerBrokerExchange, Message) | STYLE | 175 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NONNULL_VALUE |
| org.apache.activemq.security.CachedLDAPAuthorizationMap | | | | |
| Bug | Category | Line | Priority | Details |
| Null passed for nonnull parameter of java.util.Hashtable.put(Object, Object) in org.apache.activemq.security.CachedLDAPAuthorizationMap.createContext() | CORRECTNESS | 104 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of java.util.Hashtable.put(Object, Object) in org.apache.activemq.security.CachedLDAPAuthorizationMap.createContext() | CORRECTNESS | 101 | Medium | NP_NULL_PARAM_DEREF |
| org.apache.activemq.security.JaasCertificateSecurityContext | | | | |
| Bug | Category | Line | Priority | Details |
| new org.apache.activemq.security.JaasCertificateSecurityContext(String, Subject, X509Certificate[]) may expose internal representation by storing an externally mutable object into JaasCertificateSecurityContext.certs | MALICIOUS_CODE | 39 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.security.LDAPAuthorizationMap | | | | |
| Bug | Category | Line | Priority | Details |
| Null passed for nonnull parameter of java.util.Hashtable.put(Object, Object) in org.apache.activemq.security.LDAPAuthorizationMap.open() | CORRECTNESS | 476 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of java.util.Hashtable.put(Object, Object) in org.apache.activemq.security.LDAPAuthorizationMap.open() | CORRECTNESS | 473 | Medium | NP_NULL_PARAM_DEREF |
| org.apache.activemq.selector.ParseException | | | | |
| Bug | Category | Line | Priority | Details |
| new org.apache.activemq.selector.ParseException(Token, int[][], String[]) may expose internal representation by storing an externally mutable object into ParseException.expectedTokenSequences | MALICIOUS_CODE | 53 | Medium | EI_EXPOSE_REP2 |
| new org.apache.activemq.selector.ParseException(Token, int[][], String[]) may expose internal representation by storing an externally mutable object into ParseException.tokenImage | MALICIOUS_CODE | 54 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.selector.ParseException.initialise(Token, int[][], String[]) concatenates strings using + in a loop | PERFORMANCE | 134 | Medium | SBSC_USE_STRINGBUFFER_CONCATENATION |
| org.apache.activemq.selector.SelectorParser | | | | |
| Bug | Category | Line | Priority | Details |
| The method name org.apache.activemq.selector.SelectorParser.JmsSelector() doesn't start with a lower case letter | BAD_PRACTICE | 90 | Medium | NM_METHOD_NAMING_CONVENTION |
| The method name org.apache.activemq.selector.SelectorParser.ReInit(InputStream) doesn't start with a lower case letter | BAD_PRACTICE | 1115 | Medium | NM_METHOD_NAMING_CONVENTION |
| The method name org.apache.activemq.selector.SelectorParser.ReInit(InputStream, String) doesn't start with a lower case letter | BAD_PRACTICE | 1119 | Medium | NM_METHOD_NAMING_CONVENTION |
| The method name org.apache.activemq.selector.SelectorParser.ReInit(Reader) doesn't start with a lower case letter | BAD_PRACTICE | 1135 | Medium | NM_METHOD_NAMING_CONVENTION |
| The method name org.apache.activemq.selector.SelectorParser.ReInit(SelectorParserTokenManager) doesn't start with a lower case letter | BAD_PRACTICE | 1150 | Medium | NM_METHOD_NAMING_CONVENTION |

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|---|----------------|------|----------|---|
| org.apache.activemq.selector.SelectorParserConstants | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.selector.SelectorParserConstants.tokenImage should be moved out of an interface and made package protected | MALICIOUS_CODE | 79 | Medium | MS_OOI_PKGPROTECT |
| org.apache.activemq.selector.SelectorParserTokenManager | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.selector.SelectorParserTokenManager.jjstrLiteralImages should be package protected | MALICIOUS_CODE | 883 | Medium | MS_PKGPROTECT |
| The method name org.apache.activemq.selector.SelectorParserTokenManager.ReInit(SimpleCharStream) doesn't start with a lower case letter | BAD_PRACTICE | 922 | Medium | NM_METHOD_NAMING_CONVENTION |
| The method name org.apache.activemq.selector.SelectorParserTokenManager.ReInit(SimpleCharStream, int) doesn't start with a lower case letter | BAD_PRACTICE | 938 | Medium | NM_METHOD_NAMING_CONVENTION |
| The method name org.apache.activemq.selector.SelectorParserTokenManager.SwitchTo(int) doesn't start with a lower case letter | BAD_PRACTICE | 945 | Medium | NM_METHOD_NAMING_CONVENTION |
| Unread public/protected field: org.apache.activemq.selector.SelectorParserTokenManager.debugStream | STYLE | 33 | Medium | URF_UNREAD_PUBLIC_OR_PROTECTED_FIELD |
| org.apache.activemq.selector.SimpleCharStream | | | | |
| Bug | Category | Line | Priority | Details |
| Found reliance on default encoding in new org.apache.activemq.selector.SimpleCharStream(InputStream, int, int, int): new java.io.InputStreamReader(InputStream) | I18N | 339 | High | DM_DEFAULT_ENCODING |
| Found reliance on default encoding in new org.apache.activemq.selector.SimpleCharStream(InputStream, String, int, int, int): new java.io.InputStreamReader(InputStream) | I18N | 332 | High | DM_DEFAULT_ENCODING |
| Found reliance on default encoding in org.apache.activemq.selector.SimpleCharStream.ReInit(InputStream, int, int, int): new java.io.InputStreamReader(InputStream) | I18N | 379 | High | DM_DEFAULT_ENCODING |
| Found reliance on default encoding in org.apache.activemq.selector.SimpleCharStream.ReInit(InputStream, String, int, int, int): new java.io.InputStreamReader(InputStream) | I18N | 372 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.selector.TokenMgrError | | | | |
| Bug | Category | Line | Priority | Details |
| The method name org.apache.activemq.selector.TokenMgrError.LexicalError(boolean, int, int, int, String, char) doesn't start with a lower case letter | BAD_PRACTICE | 125 | Medium | NM_METHOD_NAMING_CONVENTION |
| org.apache.activemq.spring.ActiveMQConnectionFactory | | | | |
| Bug | Category | Line | Priority | Details |
| The class name org.apache.activemq.spring.ActiveMQConnectionFactory shadows the simple name of the superclass org.apache.activemq.ActiveMQConnectionFactory | BAD_PRACTICE | 32 | High | NM_SAME_SIMPLE_NAME_AS_SUPERCLASS |
| org.apache.activemq.spring.ActiveMQXAConnectionFactory | | | | |
| Bug | Category | Line | Priority | Details |
| The class name org.apache.activemq.spring.ActiveMQXAConnectionFactory shadows the simple name of the superclass org.apache.activemq.ActiveMQXAConnectionFactory | BAD_PRACTICE | 32 | High | NM_SAME_SIMPLE_NAME_AS_SUPERCLASS |
| org.apache.activemq.store.ProxyMessageStore | | | | |
| Bug | Category | Line | Priority | Details |
| There is an apparent infinite recursive loop in org.apache.activemq.store.ProxyMessageStore.asyncAddTopicMessage(ConnectionContext, Message, boolean) | CORRECTNESS | 141 | High | IL_INFINITE_RECURSIVE_LOOP |
| org.apache.activemq.store.amq.AMQPersistenceAdapter | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.amq.AMQPersistenceAdapter.createQueueMessageStore(ActiveMQQueue) | MT_CORRECTNESS | 489 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.amq.AMQPersistenceAdapter.createTopicMessageStore(ActiveMQTopic) | MT_CORRECTNESS | 504 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Dead store to store in org.apache.activemq.store.amq.AMQPersistenceAdapter.removeQueueMessageStore(ActiveMQQueue) | STYLE | 515 | Medium | DLS_DEAD_LOCAL_STORE |
| Inconsistent synchronization of org.apache.activemq.store.amq.AMQPersistenceAdapter.asyncDataManager; locked 52% of time | MT_CORRECTNESS | 343 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.store.amq.AMQPersistenceAdapter.brokerService; locked 58% of time | MT_CORRECTNESS | 337 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.store.amq.AMQPersistenceAdapter.directoryArchive; locked 60% of time | MT_CORRECTNESS | 943 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.store.amq.AMQPersistenceAdapter.disableLocking; locked 60% of time | MT_CORRECTNESS | 963 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.store.amq.AMQPersistenceAdapter.lockFile; locked 42% of time | MT_CORRECTNESS | 306 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.store.amq.AMQPersistenceAdapter.scheduler; locked 85% of time | MT_CORRECTNESS | 339 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.store.amq.AMQPersistenceAdapter.taskRunnerFactory; locked 50% of time | MT_CORRECTNESS | 338 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.store.amq.AMQPersistenceAdapter.usageManager; locked 50% of time | MT_CORRECTNESS | 310 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.store.amq.AMQPersistenceAdapter.start() calls Thread.sleep() with a lock held | MT_CORRECTNESS | 215 | Medium | SWL_SLEEP_WITH_LOCK_HELD |
| org.apache.activemq.store.amq.AMQTopicMessageStore | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to key in org.apache.activemq.store.amq.AMQTopicMessageStore.acknowledge(ConnectionContext, String, String, MessageId, MessageAck) | STYLE | 93 | High | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.store.amq.AMQTopicMessageStore\$MessageCounter | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.store.amq.AMQTopicMessageStore\$MessageCounter be a _static_ inner class? | PERFORMANCE | 211 | Medium | SIC_INNER_SHOULD_BE_STATIC |
| Unread field: org.apache.activemq.store.amq.AMQTopicMessageStore\$MessageCounter.info | PERFORMANCE | 217 | Medium | URF_UNREAD_FIELD |
| org.apache.activemq.store.amq.AMQTransactionStore | | | | |
| Bug | Category | Line | Priority | Details |

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| org.apache.activemq.store.amq.AMQTransactionStore.recover(TransactionRecoveryListener) makes inefficient use of keySet iterator instead of entrySet iterator | PERFORMANCE | 204 | Medium | WMI_WRONG_MAP_ITERATOR |
| org.apache.activemq.store.jdbc.JDBCMessageStore\$Duration | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.store.jdbc.JDBCMessageStore\$Duration be a _static_ inner class? | PERFORMANCE | 45 | Medium | SIC_INNER_SHOULD_BE_STATIC |
| org.apache.activemq.store.jdbc.JDBCPersistenceAdapter | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.store.jdbc.JDBCPersistenceAdapter.cleanupTicket; locked 75% of time | MT_CORRECTNESS | 310 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.store.jdbc.JDBCPersistenceAdapter.log(String, SQLException) concatenates strings using + in a loop | PERFORMANCE | 572 | Medium | SBSC_USE_STRINGBUFFER_CONCATENATION |
| org.apache.activemq.store.jdbc.JDBCTopicMessageStore\$LastRecoveredEntry | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.store.jdbc.JDBCTopicMessageStore\$LastRecoveredEntry be a _static_ inner class? | PERFORMANCE | 184 | Medium | SIC_INNER_SHOULD_BE_STATIC |
| org.apache.activemq.store.jdbc.JdbcMemoryTransactionStore | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.jdbc.JdbcMemoryTransactionStore.recoverLastAck(byte[], ActiveMQDestination, String, String) may fail to close stream | BAD_PRACTICE | 228 | Medium | OS_OPEN_STREAM |
| org.apache.activemq.store.jdbc.JdbcMemoryTransactionStore.recoverLastAck(byte[], ActiveMQDestination, String, String) ignores result of org.apache.activemq.util.DataByteArrayInputStream.skipBytes(int) | BAD_PRACTICE | 229 | Medium | SR_NOT_CHECKED |
| org.apache.activemq.store.jdbc.LeaseDatabaseLocker | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.jdbc.LeaseDatabaseLocker.determineTimeDifference(Connection) may fail to clean up java.sql.ResultSet | EXPERIMENTAL | 171 | Medium | OBL_UNSATISFIED_OBLIGATION |
| org.apache.activemq.store.jdbc.LeaseDatabaseLocker.determineTimeDifference(Connection) may fail to clean up java.sql.Statement | EXPERIMENTAL | 170 | Medium | OBL_UNSATISFIED_OBLIGATION |
| org.apache.activemq.store.jdbc.LeaseDatabaseLocker.reportLeasOwnerShipAndDuration(Connection) may fail to clean up java.sql.ResultSet | EXPERIMENTAL | 149 | Medium | OBL_UNSATISFIED_OBLIGATION |
| A prepared statement is generated from a nonconstant String in org.apache.activemq.store.jdbc.LeaseDatabaseLocker.keepAlive() | SECURITY | 222 | Medium | SQL_PREPARED_STATEMENT_GENERATED_FROM_NONCONSTANT_STRING |
| org.apache.activemq.store.jdbc.Statements | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.jdbc.Statements.getCreateSchemaStatements() may expose internal representation by returning Statements.createSchemaStatements | MALICIOUS_CODE | 122 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.store.jdbc.Statements.getDropSchemaStatements() may expose internal representation by returning Statements.dropSchemaStatements | MALICIOUS_CODE | 142 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.store.jdbc.Statements.setCreateSchemaStatements(String[]) may expose internal representation by storing an externally mutable object into Statements.createSchemaStatements | MALICIOUS_CODE | 760 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.store.jdbc.Statements.setDropSchemaStatements(String[]) may expose internal representation by storing an externally mutable object into Statements.dropSchemaStatements | MALICIOUS_CODE | 772 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.store.jdbc.adapter.BlobJDBCAdapter | | | | |
| Bug | Category | Line | Priority | Details |
| Null passed for nonnull parameter of DefaultJDBCAdapter.close(PreparedStatement) in org.apache.activemq.store.jdbc.adapter.BlobJDBCAdapter.doAddMessage(TransactionContext, long, MessageId, ActiveMQDestination, byte[], long, byte, XATransactionId) | CORRECTNESS | 98 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of DefaultJDBCAdapter.close(PreparedStatement) in org.apache.activemq.store.jdbc.adapter.BlobJDBCAdapter.doGetMessage(TransactionContext, MessageId) | CORRECTNESS | 157 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of DefaultJDBCAdapter.close(ResultSet) in org.apache.activemq.store.jdbc.adapter.BlobJDBCAdapter.doGetMessage(TransactionContext, MessageId) | CORRECTNESS | 156 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of DefaultJDBCAdapter.close(PreparedStatement) in org.apache.activemq.store.jdbc.adapter.BlobJDBCAdapter.updateBlob(Connection, String, long, byte[]) | CORRECTNESS | 122 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of DefaultJDBCAdapter.close(ResultSet) in org.apache.activemq.store.jdbc.adapter.BlobJDBCAdapter.updateBlob(Connection, String, long, byte[]) | CORRECTNESS | 121 | Medium | NP_NULL_PARAM_DEREF |
| org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter | | | | |
| Bug | Category | Line | Priority | Details |
| rs is null guaranteed to be dereferenced in org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doRecoverNextMessages(TransactionContext, ActiveMQDestination, long, long, int, boolean, JDBCMessageRecoveryListener) on exception path | CORRECTNESS | 1067 | Medium | NP_GUARANTEED_DEREF_ON_EXCEPTION_PATH |
| s is null guaranteed to be dereferenced in org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doRecoverNextMessages(TransactionContext, ActiveMQDestination, long, long, int, boolean, JDBCMessageRecoveryListener) on exception path | CORRECTNESS | 1068 | Medium | NP_GUARANTEED_DEREF_ON_EXCEPTION_PATH |
| Null passed for nonnull parameter of close(PreparedStatement) in org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doClearLastAck(TransactionContext, ActiveMQDestination, byte, String, String) | CORRECTNESS | 530 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of close(PreparedStatement) in org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doCommitAddOp(TransactionContext, long) | CORRECTNESS | 998 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of close(ResultSet) in org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doCreateTables(TransactionContext) | CORRECTNESS | 96 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of close(PreparedStatement) in org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doDeleteOldMessages(TransactionContext) | CORRECTNESS | 824 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of close(PreparedStatement) in org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doDeleteSubscription(TransactionContext, ActiveMQDestination, String, String) | CORRECTNESS | 806 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of close(PreparedStatement) in org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doGetAllSubscriptions(TransactionContext, ActiveMQDestination) | CORRECTNESS | 772 | Medium | NP_NULL_PARAM_DEREF |
| Null passed for nonnull parameter of close(ResultSet) in org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doGetAllSubscriptions(TransactionContext, ActiveMQDestination) | CORRECTNESS | 771 | Medium | NP_NULL_PARAM_DEREF |

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| Null passed for nonnull parameter of close(ResultSet) in org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.getStoreSequenceId(TransactionContext, ActiveMQDestination, MessageId) | CORRECTNESS | 296 | Medium | NP_NULL_PARAM_DEREF |
| org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doAddMessage(TransactionContext, long, MessageId, ActiveMQDestination, byte[], long, byte, XATransactionId) may fail to clean up java.sql.Statement | EXPERIMENTAL | 216 | Medium | OBL_UNSATISFIED_OBLIGATION |
| org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doAddMessageReference(TransactionContext, long, MessageId, ActiveMQDestination, long, String) may fail to clean up java.sql.Statement | EXPERIMENTAL | 256 | Medium | OBL_UNSATISFIED_OBLIGATION |
| org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doRemoveMessage(TransactionContext, long, XATransactionId) may fail to clean up java.sql.Statement | EXPERIMENTAL | 348 | Medium | OBL_UNSATISFIED_OBLIGATION |
| org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doSetLastAck(TransactionContext, ActiveMQDestination, XATransactionId, String, String, long, long) may fail to clean up java.sql.Statement | EXPERIMENTAL | 474 | Medium | OBL_UNSATISFIED_OBLIGATION |
| org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doSetLastAckWithPriority(TransactionContext, ActiveMQDestination, XATransactionId, String, String, long, long) may fail to clean up java.sql.Statement | EXPERIMENTAL | 437 | Medium | OBL_UNSATISFIED_OBLIGATION |
| org.apache.activemq.store.jdbc.adapter.DefaultJDBCAdapter.doRecoverPreparedOps(TransactionContext, JdbcMemoryTransactionStore) does not release lock on all exception paths | MT_CORRECTNESS | 951 | Medium | UL_UNRELEASED_LOCK_EXCEPTION_PATH |
| org.apache.activemq.store.journal.JournalPersistenceAdapter | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.journal.JournalPersistenceAdapter.createQueueMessageStore(ActiveMQQueue) | MT_CORRECTNESS | 186 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.journal.JournalPersistenceAdapter.createTopicMessageStore(ActiveMQTopic) | MT_CORRECTNESS | 196 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Inconsistent synchronization of org.apache.activemq.store.journal.JournalPersistenceAdapter.scheduler; locked 60% of time | MT_CORRECTNESS | 285 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.store.journal.JournalPersistenceAdapter.taskRunnerFactory; locked 50% of time | MT_CORRECTNESS | 131 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.store.journal.JournalTransactionStore | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.journal.JournalTransactionStore.recover(TransactionRecoveryListener) makes inefficient use of keySet iterator instead of entrySet iterator | PERFORMANCE | 285 | Medium | WMI_WRONG_MAP_ITERATOR |
| org.apache.activemq.store.kahadaptor.KahaMessageStore | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.store.kahadaptor.KahaMessageStore.batchEntry; locked 85% of time | MT_CORRECTNESS | 181 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.store.kahadaptor.KahaPersistenceAdapter | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.kahadaptor.KahaPersistenceAdapter.createQueueMessageStore(ActiveMQQueue) | MT_CORRECTNESS | 111 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.kahadaptor.KahaPersistenceAdapter.createQueueMessageStore(ActiveMQQueue) | MT_CORRECTNESS | 115 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.kahadaptor.KahaPersistenceAdapter.createTopicMessageStore(ActiveMQTopic) | MT_CORRECTNESS | 132 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.kahadaptor.KahaPersistenceAdapter.createTopicMessageStore(ActiveMQTopic) | MT_CORRECTNESS | 136 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Inconsistent synchronization of org.apache.activemq.store.kahadaptor.KahaPersistenceAdapter.transactionStore; locked 44% of time | MT_CORRECTNESS | 172 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.store.kahadaptor.KahaReferenceStoreAdapter | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.kahadaptor.KahaReferenceStoreAdapter.createQueueReferenceStore(ActiveMQQueue) | MT_CORRECTNESS | 157 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.kahadaptor.KahaReferenceStoreAdapter.createQueueReferenceStore(ActiveMQQueue) | MT_CORRECTNESS | 161 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.kahadaptor.KahaReferenceStoreAdapter.createTopicReferenceStore(ActiveMQTopic) | MT_CORRECTNESS | 176 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.kahadaptor.KahaReferenceStoreAdapter.createTopicReferenceStore(ActiveMQTopic) | MT_CORRECTNESS | 180 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| org.apache.activemq.store.kahadaptor.KahaReferenceStoreAdapter.<static initializer>() invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 62 | Medium | DM_NUMBER_CTOR |
| Inconsistent synchronization of org.apache.activemq.store.kahadaptor.KahaReferenceStoreAdapter.stateStore; locked 58% of time | MT_CORRECTNESS | 365 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.store.kahadaptor.KahaTopicMessageStore | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.kaha.StoreEntry is incompatible with expected argument type org.apache.activemq.command.MessageId in org.apache.activemq.store.kahadaptor.KahaTopicMessageStore.recoverSubscription(String, String, MessageRecoveryListener) | CORRECTNESS | 144 | Medium | GC_UNRELATED_TYPES |
| org.apache.activemq.store.kahadb.KahaDBStore\$KahaDBTopicMessageStore | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to info in org.apache.activemq.store.kahadb.KahaDBStore\$KahaDBTopicMessageStore.recoverNextMessages(String, String, int, MessageRecoveryListener) | STYLE | 844 | Medium | DLS_DEAD_LOCAL_STORE |
| Dead store to info in org.apache.activemq.store.kahadb.KahaDBStore\$KahaDBTopicMessageStore.recoverSubscription(String, String, MessageRecoveryListener) | STYLE | 816 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.store.kahadb.KahaDBStore\$StoreTaskExecutor | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.store.kahadb.KahaDBStore\$StoreTaskExecutor be a _static_ inner class? | PERFORMANCE | 1302 | Medium | SIC_INNER_SHOULD_BE_STATIC |
| org.apache.activemq.store.kahadb.KahaDBTransactionStore | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.kahadb.KahaDBTransactionStore.getTx(Object) | MT_CORRECTNESS | 249 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |

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|---|-----------------|-------------|-----------------|---|
| org.apache.activemq.store.kahadb.KahaDBTransactionStore\$Tx | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.store.kahadb.KahaDBTransactionStore\$Tx be a _static_ inner class? | PERFORMANCE | 72 | Medium | SIC INNER SHOULD BE STATI C |
| org.apache.activemq.store.kahadb.MessageDatabase | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.MessageDatabase.loadStoredDestination(Transaction, String, boolean) invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 1793 | Medium | DM NUMBER CTOR |
| org.apache.activemq.store.kahadb.MessageDatabase.recoverProducerAudit() may fail to close stream | BAD_PRACTICE | 553 | Medium | OS_OPEN_STREAM |
| org.apache.activemq.store.kahadb.MessageDatabase.load() does not release lock on all exception paths | MT_CORRECTNESS | 371 | Medium | UL_UNRELEASED_LOCK_EXCEP TION_PATH |
| Private method org.apache.activemq.store.kahadb.MessageDatabase.key(KahaTransactionInfo) is never called | PERFORMANCE | 2054 | Medium | UPM_UNCALLED_PRIVATE_MET HOD |
| org.apache.activemq.store.kahadb.MessageDatabase\$LastAck | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.store.kahadb.MessageDatabase\$LastAck be a _static_ inner class? | PERFORMANCE | 1512 | Medium | SIC INNER SHOULD BE STATI C |
| org.apache.activemq.store.kahadb.MessageDatabase\$MessageOrderIndex | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.MessageDatabase\$MessageOrderIndex.setBatch(Transaction, Long) invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 2529 | Medium | DM NUMBER CTOR |
| Switch statement found in org.apache.activemq.store.kahadb.MessageDatabase\$MessageOrderIndex.setBatch(Transaction, MessageDatabase\$LastAck) where default case is missing | STYLE | 2555 | Medium | SF_SWITCH_NO_DEFAULT |
| org.apache.activemq.store.kahadb.MessageDatabase\$StoredDestinationMarshaller\$1 | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.MessageDatabase\$StoredDestinationMarshaller\$1.execute(Transaction) makes inefficient use of keySet iterator instead of entrySet iterator | PERFORMANCE | 1628 | Medium | WMI_WRONG_MAP_ITERATOR |
| org.apache.activemq.store.kahadb.MessageDatabase\$StoredSubscription | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.store.kahadb.MessageDatabase\$StoredSubscription be a _static_ inner class? | PERFORMANCE | 1473 | Medium | SIC INNER SHOULD BE STATI C |
| Unused field: org.apache.activemq.store.kahadb.MessageDatabase\$StoredSubscription.cursor | PERFORMANCE | | Medium | UUF_UNUSED_FIELD |
| Unused field: org.apache.activemq.store.kahadb.MessageDatabase\$StoredSubscription.lastAckId | PERFORMANCE | | Medium | UUF_UNUSED_FIELD |
| Unused field: org.apache.activemq.store.kahadb.MessageDatabase\$StoredSubscription.lastAckLocation | PERFORMANCE | | Medium | UUF_UNUSED_FIELD |
| Unused field: org.apache.activemq.store.kahadb.MessageDatabase\$StoredSubscription.subscriptionInfo | PERFORMANCE | | Medium | UUF_UNUSED_FIELD |
| org.apache.activemq.store.kahadb.MultiKahaDBTransactionStore | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.kahadb.MultiKahaDBTransactionStore.getTx(TransactionId) | MT_CORRECTNESS | 187 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| org.apache.activemq.store.kahadb.MultiKahaDBTransactionStore\$Tx | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.store.kahadb.MultiKahaDBTransactionStore\$Tx be a _static_ inner class? | PERFORMANCE | 162 | Medium | SIC INNER SHOULD BE STATI C |
| org.apache.activemq.store.kahadb.TempMessageDatabase\$StoredSubscription | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.store.kahadb.TempMessageDatabase\$StoredSubscription be a _static_ inner class? | PERFORMANCE | 351 | Medium | SIC INNER SHOULD BE STATI C |
| Unused field: org.apache.activemq.store.kahadb.TempMessageDatabase\$StoredSubscription.cursor | PERFORMANCE | | Medium | UUF_UNUSED_FIELD |
| Unused field: org.apache.activemq.store.kahadb.TempMessageDatabase\$StoredSubscription.lastAckByteSequence | PERFORMANCE | | Medium | UUF_UNUSED_FIELD |
| Unused field: org.apache.activemq.store.kahadb.TempMessageDatabase\$StoredSubscription.lastAckId | PERFORMANCE | | Medium | UUF_UNUSED_FIELD |
| Unused field: org.apache.activemq.store.kahadb.TempMessageDatabase\$StoredSubscription.subscriptionInfo | PERFORMANCE | | Medium | UUF_UNUSED_FIELD |
| org.apache.activemq.store.kahadb.data.KahaAddMessageCommand | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaAddMessageCommand defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 48 | High | CN_IMPLEMENTES_CLONE_BUT_NOT_CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaCommitCommand | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaCommitCommand defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 30 | High | CN_IMPLEMENTES_CLONE_BUT_NOT_CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaDestination | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaDestination defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 68 | High | CN_IMPLEMENTES_CLONE_BUT_NOT_CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaLocalTransactionId | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaLocalTransactionId defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 27 | High | CN_IMPLEMENTES_CLONE_BUT_NOT_CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaLocalTransactionId.hashCode() invokes inefficient new Long(long) constructor; use Long.valueOf(long) instead | PERFORMANCE | 163 | Medium | DM NUMBER CTOR |

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|---|-----------------|-------------|-----------------|---|
| org.apache.activemq.store.kahadb.data.KahaLocation | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaLocation defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 27 | High | CN IMPLEMENTS CLONE BUT NOT CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaPrepareCommand | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaPrepareCommand defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 30 | High | CN IMPLEMENTS CLONE BUT NOT CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaProducerAuditCommand | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaProducerAuditCommand defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 23 | High | CN IMPLEMENTS CLONE BUT NOT CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaRemoveDestinationCommand | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaRemoveDestinationCommand defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 30 | High | CN IMPLEMENTS CLONE BUT NOT CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaRemoveMessageCommand | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaRemoveMessageCommand defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 44 | High | CN IMPLEMENTS CLONE BUT NOT CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaRollbackCommand | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaRollbackCommand defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 30 | High | CN IMPLEMENTS CLONE BUT NOT CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaSubscriptionCommand | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaSubscriptionCommand defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 36 | High | CN IMPLEMENTS CLONE BUT NOT CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaTraceCommand | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaTraceCommand defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 23 | High | CN IMPLEMENTS CLONE BUT NOT CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaTransactionInfo | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaTransactionInfo defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 43 | High | CN IMPLEMENTS CLONE BUT NOT CLONEABLE |
| org.apache.activemq.store.kahadb.data.KahaXATransactionId | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.data.KahaXATransactionId defines clone() but doesn't implement Cloneable | BAD_PRACTICE | 31 | High | CN IMPLEMENTS CLONE BUT NOT CLONEABLE |
| org.apache.activemq.store.kahadb.plist.PListStore | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.store.kahadb.plist.PListStore.directory; locked 75% of time | MT_CORRECTNESS | 204 | Medium | IS2 INCONSISTENT SYNC |
| Inconsistent synchronization of org.apache.activemq.store.kahadb.plist.PListStore.journal; locked 50% of time | MT_CORRECTNESS | 398 | Medium | IS2 INCONSISTENT SYNC |
| Inconsistent synchronization of org.apache.activemq.store.kahadb.plist.PListStore.pageFile; locked 80% of time | MT_CORRECTNESS | 134 | Medium | IS2 INCONSISTENT SYNC |
| Inconsistent synchronization of org.apache.activemq.store.kahadb.plist.PListStore.scheduler; locked 88% of time | MT_CORRECTNESS | 89 | Medium | IS2 INCONSISTENT SYNC |
| org.apache.activemq.store.kahadb.plist.PListStore\$MetaData | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.store.kahadb.plist.PListStore\$PListMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Should org.apache.activemq.store.kahadb.plist.PListStore\$PListMarshaller be a _static_ inner class? | PERFORMANCE | 179 | Medium | SIC INNER SHOULD BE STATIC |
| org.apache.activemq.store.memory.MemoryMessageStore | | | | |
| Bug | Category | Line | Priority | Details |
| Impossible cast from org.apache.activemq.command.Message to org.apache.activemq.command.MessageId in org.apache.activemq.store.memory.MemoryMessageStore.recover(MessageRecoveryListener) | CORRECTNESS | 103 | High | BC IMPOSSIBLE CAST |
| org.apache.activemq.store.memory.MemoryPersistenceAdapter | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.memory.MemoryPersistenceAdapter.createQueueMessageStore(ActiveMQQueue) | MT_CORRECTNESS | 74 | Medium | AT OPERATION SEQUENCE ON CONCURRENT ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.memory.MemoryPersistenceAdapter.createTopicMessageStore(ActiveMQTopic) | MT_CORRECTNESS | 86 | Medium | AT OPERATION SEQUENCE ON CONCURRENT ABSTRACTION |
| org.apache.activemq.store.memory.MemoryTransactionStore | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.memory.MemoryTransactionStore.getPreparedTx(TransactionId) | MT_CORRECTNESS | 243 | Medium | AT OPERATION SEQUENCE ON CONCURRENT ABSTRACTION |

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| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.store.memory.MemoryTransactionStore.getTx(Object) | MT_CORRECTNESS | 234 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| org.apache.activemq.thread.Scheduler | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.thread.Scheduler.timer; locked 75% of time | MT_CORRECTNESS | 68 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.transport.AbstractInactivityMonitor | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.transport.AbstractInactivityMonitor.readCheckTime; locked 57% of time | MT_CORRECTNESS | 105 | Medium | IS2_INCONSISTENT_SYNC |
| Inconsistent synchronization of org.apache.activemq.transport.AbstractInactivityMonitor.writeCheckTime; locked 66% of time | MT_CORRECTNESS | 316 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.transport.AbstractInactivityMonitor.oneway(Object) does not release lock on all exception paths | MT_CORRECTNESS | 268 | Medium | UL_UNRELEASED_LOCK_EXCEPTION_PATH |
| org.apache.activemq.transport.ResponseCorrelator | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.ResponseCorrelator.asyncRequest(Object, ResponseCallback) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 72 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.transport.TransportFactory | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.transport.TransportFactory.findTransportFactory(URI) | MT_CORRECTNESS | 194 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| org.apache.activemq.transport.TransportLogger | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.TransportLogger.finalize() is public; should be protected | MALICIOUS_CODE | 155 | Medium | FI_PUBLIC_SHOULD_BE_PROTECTED |
| org.apache.activemq.transport.TransportLoggerFactory | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.transport.TransportLoggerFactory.transportLoggerControlCreated; locked 66% of time | MT_CORRECTNESS | 90 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.transport.TransportLoggerFactory.defaultLogWriterName isn't final but should be | MALICIOUS_CODE | 50 | High | MS_SHOULD_BE_FINAL |
| org.apache.activemq.transport.TransportLoggerView | | | | |
| Bug | Category | Line | Priority | Details |
| Possible null pointer dereference in org.apache.activemq.transport.TransportLoggerView.isLogging() due to return value of called method | STYLE | 109 | Medium | NP_NULL_ON_SOME_PATH_FROM_RETURN_VALUE |
| Possible null pointer dereference in org.apache.activemq.transport.TransportLoggerView.setLogging(boolean) due to return value of called method | STYLE | 114 | Medium | NP_NULL_ON_SOME_PATH_FROM_RETURN_VALUE |
| org.apache.activemq.transport.WriteTimeoutFilter | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.WriteTimeoutFilter.sleep should be package protected | MALICIOUS_CODE | 61 | Medium | MS_PKGPROTECT |
| org.apache.activemq.transport.WriteTimeoutFilter.writers isn't final but should be | MALICIOUS_CODE | 57 | High | MS_SHOULD_BE_FINAL |
| org.apache.activemq.transport.discovery.DiscoveryAgentFactory | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.transport.discovery.DiscoveryAgentFactory.findDiscoveryAgentFactory(URI) | MT_CORRECTNESS | 46 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| org.apache.activemq.transport.discovery.masterslave.MasterSlaveDiscoveryAgent | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.discovery.masterslave.MasterSlaveDiscoveryAgent.getServices() may expose internal representation by returning MasterSlaveDiscoveryAgent.msServices | MALICIOUS_CODE | 36 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.transport.discovery.masterslave.MasterSlaveDiscoveryAgent.setServices(String[]) may expose internal representation by storing an externally mutable object into MasterSlaveDiscoveryAgent.msServices | MALICIOUS_CODE | 47 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.transport.discovery.multicast.MulticastDiscoveryAgent | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to type in org.apache.activemq.transport.discovery.multicast.MulticastDiscoveryAgent.start() | STYLE | 284 | Medium | DLS_DEAD_LOCAL_STORE |
| Found reliance on default encoding in org.apache.activemq.transport.discovery.multicast.MulticastDiscoveryAgent.doAdvertizeSelf(): String.getBytes() | I18N | 419 | High | DM_DEFAULT_ENCODING |
| Found reliance on default encoding in org.apache.activemq.transport.discovery.multicast.MulticastDiscoveryAgent.run(): new String(byte[], int, int) | I18N | 371 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.transport.discovery.simple.SimpleDiscoveryAgent | | | | |
| Bug | Category | Line | Priority | Details |
| Unchecked/unconfirmed cast from org.apache.activemq.command.DiscoveryEvent to org.apache.activemq.transport.discovery.simple.SimpleDiscoveryAgent\$SimpleDiscoveryEvent in org.apache.activemq.transport.discovery.simple.SimpleDiscoveryAgent.serviceFailed(DiscoveryEvent) | STYLE | 118 | Medium | BC_UNCONFIRMED_CAST |
| org.apache.activemq.transport.discovery.simple.SimpleDiscoveryAgent.getServices() may expose internal representation by returning SimpleDiscoveryAgent.services | MALICIOUS_CODE | 98 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.transport.discovery.simple.SimpleDiscoveryAgent.setServices(String[]) may expose internal representation by storing an externally mutable object into SimpleDiscoveryAgent.services | MALICIOUS_CODE | 106 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.transport.failover.FailoverTransport | | | | |
| Bug | Category | Line | Priority | Details |
| Found reliance on default encoding in org.apache.activemq.transport.failover.FailoverTransport.getURLStream(String): new java.io.FileReader(String) | I18N | 1339 | High | DM_DEFAULT_ENCODING |
| Found reliance on default encoding in org.apache.activemq.transport.failover.FailoverTransport.getURLStream(String): new java.io.InputStreamReader(InputStream) | I18N | 1334 | High | DM_DEFAULT_ENCODING |

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| org.apache.activemq.transport.fanout.FanoutTransport | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.fanout.FanoutTransport.oneway(Object) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 402 | Medium | DM_NUMBER_CTOR |
| Using pointer equality to compare a FanoutTransport\$FanoutTransportHandler with a org.apache.activemq.transport.Transport in org.apache.activemq.transport.fanout.FanoutTransport.restoreTransport(FanoutTransport\$FanoutTransportHandler) | CORRECTNESS | 506 | Medium | EC_UNRELATED_TYPES_USING_POINTER_EQUALITY |
| org.apache.activemq.transport.fanout.FanoutTransport\$FanoutTransportHandler | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.fanout.FanoutTransport\$FanoutTransportHandler.onCommand(Object) invokes inefficient new Integer(int) constructor; use Integer.valueOf(int) instead | PERFORMANCE | 117 | Medium | DM_NUMBER_CTOR |
| org.apache.activemq.transport.mqtt.MQTTCodec | | | | |
| Bug | Category | Line | Priority | Details |
| Unread field: org.apache.activemq.transport.mqtt.MQTTCodec.previousByte | PERFORMANCE | 36 | Medium | URF_UNREAD_FIELD |
| Unused field: org.apache.activemq.transport.mqtt.MQTTCodec.action | PERFORMANCE | | Medium | UUF_UNUSED_FIELD |
| org.apache.activemq.transport.mqtt.MQTTInactivityMonitor | | | | |
| Bug | Category | Line | Priority | Details |
| Inconsistent synchronization of org.apache.activemq.transport.mqtt.MQTTInactivityMonitor.readCheckTime; locked 57% of time | MT_CORRECTNESS | 96 | Medium | IS2_INCONSISTENT_SYNC |
| org.apache.activemq.transport.mqtt.MQTTInactivityMonitor.oneway(Object) does not release lock on all exception paths | MT_CORRECTNESS | 177 | Medium | UL_UNRELEASED_LOCK_EXCEPTION_PATH |
| org.apache.activemq.transport.mqtt.MQTTProtocolConverter | | | | |
| Bug | Category | Line | Priority | Details |
| Unchecked/unconfirmed cast from org.apache.activemq.command.Response to org.apache.activemq.command.ExceptionResponse in org.apache.activemq.transport.mqtt.MQTTProtocolConverter.onActiveMQCommand(Command) | STYLE | 328 | Medium | BC_UNCONFIRMED_CAST |
| Dead store to result in org.apache.activemq.transport.mqtt.MQTTProtocolConverter.onSubscribe(SUBSCRIBE) | STYLE | 242 | High | DLS_DEAD_LOCAL_STORE |
| Possible null pointer dereference of info in org.apache.activemq.transport.mqtt.MQTTProtocolConverter.onUnSubscribe(UTF8Buffer) | CORRECTNESS | 308 | Medium | NP_NULL_ON_SOME_PATH |
| org.apache.activemq.transport.mqtt.MQTTProtocolConverter.convertMessage(ActiveMQMessage) may fail to close stream | BAD_PRACTICE | 493 | Medium | OS_OPEN_STREAM |
| org.apache.activemq.transport.mqtt.MQTTProtocolConverter\$1 | | | | |
| Bug | Category | Line | Priority | Details |
| Unchecked/unconfirmed cast from org.apache.activemq.command.Response to org.apache.activemq.command.ExceptionResponse in org.apache.activemq.transport.mqtt.MQTTProtocolConverter\$1.onResponse(MQTTProtocolConverter, Response) | STYLE | 203 | Medium | BC_UNCONFIRMED_CAST |
| org.apache.activemq.transport.mqtt.MQTTProtocolConverter\$1\$1 | | | | |
| Bug | Category | Line | Priority | Details |
| Unchecked/unconfirmed cast from org.apache.activemq.command.Response to org.apache.activemq.command.ExceptionResponse in org.apache.activemq.transport.mqtt.MQTTProtocolConverter\$1\$1.onResponse(MQTTProtocolConverter, Response) | STYLE | 221 | Medium | BC_UNCONFIRMED_CAST |
| org.apache.activemq.transport.mqtt.MQTTProtocolConverter\$2 | | | | |
| Bug | Category | Line | Priority | Details |
| Unchecked/unconfirmed cast from org.apache.activemq.command.Response to org.apache.activemq.command.ExceptionResponse in org.apache.activemq.transport.mqtt.MQTTProtocolConverter\$2.onResponse(MQTTProtocolConverter, Response) | STYLE | 595 | Medium | BC_UNCONFIRMED_CAST |
| org.apache.activemq.transport.mqtt.MQTTProtocolConverter\$3 | | | | |
| Bug | Category | Line | Priority | Details |
| Unchecked/unconfirmed cast from org.apache.activemq.command.Response to org.apache.activemq.command.ExceptionResponse in org.apache.activemq.transport.mqtt.MQTTProtocolConverter\$3.onResponse(MQTTProtocolConverter, Response) | STYLE | 607 | Medium | BC_UNCONFIRMED_CAST |
| org.apache.activemq.transport.mqtt.MQTTWireFormat | | | | |
| Bug | Category | Line | Priority | Details |
| Unread field: org.apache.activemq.transport.mqtt.MQTTWireFormat.encodingEnabled | PERFORMANCE | 41 | Medium | URF_UNREAD_FIELD |
| org.apache.activemq.transport.multicast.MulticastDatagramHeaderMarshaller | | | | |
| Bug | Category | Line | Priority | Details |
| Found reliance on default encoding in new org.apache.activemq.transport.multicast.MulticastDatagramHeaderMarshaller(String): String.getBytes() | I18N | 36 | High | DM_DEFAULT_ENCODING |
| Found reliance on default encoding in org.apache.activemq.transport.multicast.MulticastDatagramHeaderMarshaller.createEndpoint(ByteBuffer, SocketAddress): new String(byte[]) | I18N | 43 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.transport.nio.NIOInputStream | | | | |
| Bug | Category | Line | Priority | Details |
| Unused public or protected field: org.apache.activemq.transport.nio.NIOInputStream.count | STYLE | | Medium | UUF_UNUSED_PUBLIC_OR_PROTECTED_FIELD |
| Unused public or protected field: org.apache.activemq.transport.nio.NIOInputStream.position | STYLE | | Medium | UUF_UNUSED_PUBLIC_OR_PROTECTED_FIELD |
| org.apache.activemq.transport.nio.NIOSSLTransport | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.nio.NIOSSLTransport.getEnabledCipherSuites() may expose internal representation by returning NIOSSLTransport.enabledCipherSuites | MALICIOUS_CODE | 344 | Medium | EI_EXPOSE_REP |

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| org.apache.activemq.transport.nio.NIOSSLTransport.setEnabledCipherSuites(String[]) may expose internal representation by storing an externally mutable object into NIOSSLTransport.enabledCipherSuites | MALICIOUS_CODE | 348 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.transport.stomp.JmsFrameTranslator | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.stomp.JmsFrameTranslator.createMapMessage(HierarchicalStreamReader) makes inefficient use of keySet iterator instead of entrySet iterator | PERFORMANCE | 196 | Medium | WMI_WRONG_MAP_ITERATOR |
| org.apache.activemq.transport.stomp.LegacyFrameTranslator | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.stomp.LegacyFrameTranslator.convertFrame(ProtocolConverter, StompFrame) may fail to close stream | BAD_PRACTICE | 82 | Medium | OS_OPEN_STREAM |
| org.apache.activemq.transport.stomp.ProtocolConverter | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.transport.stomp.ProtocolConverter.createTempDestination(String, boolean) | MT_CORRECTNESS | 812 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.transport.stomp.ProtocolConverter.createTempDestination(String, boolean) | MT_CORRECTNESS | 813 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Unchecked/unconfirmed cast from org.apache.activemq.command.Response to org.apache.activemq.command.ExceptionResponse in org.apache.activemq.transport.stomp.ProtocolConverter.onActiveMQCommand(Command) | STYLE | 767 | Medium | BC_UNCONFIRMED_CAST |
| Unchecked/unconfirmed cast from org.apache.activemq.transport.stomp.StompFrame to org.apache.activemq.transport.stomp.StompFrameError in org.apache.activemq.transport.stomp.ProtocolConverter.onStompCommand(StompFrame) | STYLE | 197 | Medium | BC_UNCONFIRMED_CAST |
| Found reliance on default encoding in org.apache.activemq.transport.stomp.ProtocolConverter.<static initializer>(): new java.io.InputStreamReader(InputStream) | I18N | 87 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.transport.stomp.ProtocolConverter.<static initializer>() may fail to close stream | BAD_PRACTICE | 87 | Medium | OS_OPEN_STREAM |
| Redundant nullcheck of subscriptionId, which is known to be non-null in org.apache.activemq.transport.stomp.ProtocolConverter.onStompNack(StompFrame) | STYLE | 322 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NONNULL_VALUE |
| Exception is caught when Exception is not thrown in org.apache.activemq.transport.stomp.ProtocolConverter.findTranslator(String) | STYLE | 181 | Medium | REC_CATCH_EXCEPTION |
| org.apache.activemq.transport.stomp.ProtocolConverter\$1 | | | | |
| Bug | Category | Line | Priority | Details |
| Unchecked/unconfirmed cast from org.apache.activemq.command.Response to org.apache.activemq.command.ExceptionResponse in org.apache.activemq.transport.stomp.ProtocolConverter\$1.onResponse(ProtocolConverter, Response) | STYLE | 143 | Medium | BC_UNCONFIRMED_CAST |
| org.apache.activemq.transport.stomp.ProtocolConverter\$2 | | | | |
| Bug | Category | Line | Priority | Details |
| Unchecked/unconfirmed cast from org.apache.activemq.command.Response to org.apache.activemq.command.ExceptionResponse in org.apache.activemq.transport.stomp.ProtocolConverter\$2.onResponse(ProtocolConverter, Response) | STYLE | 557 | Medium | BC_UNCONFIRMED_CAST |
| org.apache.activemq.transport.stomp.ProtocolConverter\$3 | | | | |
| Bug | Category | Line | Priority | Details |
| Unchecked/unconfirmed cast from org.apache.activemq.command.Response to org.apache.activemq.command.ExceptionResponse in org.apache.activemq.transport.stomp.ProtocolConverter\$3.onResponse(ProtocolConverter, Response) | STYLE | 683 | Medium | BC_UNCONFIRMED_CAST |
| org.apache.activemq.transport.stomp.ProtocolConverter\$3\$1 | | | | |
| Bug | Category | Line | Priority | Details |
| Unchecked/unconfirmed cast from org.apache.activemq.command.Response to org.apache.activemq.command.ExceptionResponse in org.apache.activemq.transport.stomp.ProtocolConverter\$3\$1.onResponse(ProtocolConverter, Response) | STYLE | 698 | Medium | BC_UNCONFIRMED_CAST |
| org.apache.activemq.transport.stomp.Stomp | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.stomp.Stomp.COLON_ESCAPE_SEQ should be moved out of an interface and made package protected | MALICIOUS_CODE | 29 | Medium | MS_OOI_PKGPROTECT |
| org.apache.activemq.transport.stomp.Stomp.ESCAPE_ESCAPE_SEQ should be moved out of an interface and made package protected | MALICIOUS_CODE | 28 | Medium | MS_OOI_PKGPROTECT |
| org.apache.activemq.transport.stomp.Stomp.NEWLINE_ESCAPE_SEQ should be moved out of an interface and made package protected | MALICIOUS_CODE | 30 | Medium | MS_OOI_PKGPROTECT |
| org.apache.activemq.transport.stomp.Stomp.SUPPORTED_PROTOCOL_VERSIONS should be moved out of an interface and made package protected | MALICIOUS_CODE | 39 | Medium | MS_OOI_PKGPROTECT |
| org.apache.activemq.transport.stomp.StompCodec | | | | |
| Bug | Category | Line | Priority | Details |
| Unread field: org.apache.activemq.transport.stomp.StompCodec.version | PERFORMANCE | 42 | Medium | URF_UNREAD_FIELD |
| org.apache.activemq.transport.stomp.StompConnection | | | | |
| Bug | Category | Line | Priority | Details |
| Found reliance on default encoding in org.apache.activemq.transport.stomp.StompConnection.send(String, String, String, HashMap): String.getBytes() | I18N | 165 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.transport.stomp.StompConnection.appendHeaders(HashMap) makes inefficient use of keySet iterator instead of entrySet iterator | PERFORMANCE | 247 | Medium | WMI_WRONG_MAP_ITERATOR |
| org.apache.activemq.transport.stomp.StompFrame | | | | |
| Bug | Category | Line | Priority | Details |
| Found reliance on default encoding in org.apache.activemq.transport.stomp.StompFrame.getBody(): new String(byte[]) | I18N | 79 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.transport.stomp.StompFrame.getContent() may expose internal representation by returning StompFrame.content | MALICIOUS_CODE | 72 | Medium | EI_EXPOSE_REP |
| new org.apache.activemq.transport.stomp.StompFrame(String, Map, byte[]) may expose internal representation by storing an externally mutable object into StompFrame.content | MALICIOUS_CODE | 57 | Medium | EI_EXPOSE_REP2 |

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| org.apache.activemq.transport.stomp.StompFrame.setContent(byte[]) may expose internal representation by storing an externally mutable object into StompFrame.content | MALICIOUS_CODE | 84 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.transport.stomp.StompWireFormat | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.transport.stomp.StompWireFormat.decodeHeader(InputStream) may fail to close stream | BAD_PRACTICE | 270 | Medium | OS_OPEN_STREAM |
| org.apache.activemq.transport.stomp.StompWireFormat.encodeHeader(String) may fail to close stream | BAD_PRACTICE | 247 | Medium | OS_OPEN_STREAM |
| org.apache.activemq.transport.stomp.StompWireFormat.parseHeaders(DataInput) may fail to close stream | BAD_PRACTICE | 196 | Medium | OS_OPEN_STREAM |
| Exception is caught when Exception is not thrown in org.apache.activemq.transport.stomp.StompWireFormat.parseHeaders(DataInput) | STYLE | 218 | Medium | REC_CATCH_EXCEPTION |
| org.apache.activemq.transport.tcp.TcpTransport | | | | |
| Bug | Category | Line | Priority | Details |
| return value of java.util.concurrent.CountDownLatch.await(long, TimeUnit) ignored in org.apache.activemq.transport.tcp.TcpTransport.stop() | CORRECTNESS | 588 | Medium | RV_RETURN_VALUE_IGNORED |
| org.apache.activemq.transport.udp.CommandChannelSupport | | | | |
| Bug | Category | Line | Priority | Details |
| Redundant nullcheck of org.apache.activemq.transport.udp.CommandChannelSupport.sequenceGenerator, which is known to be non-null in new org.apache.activemq.transport.udp.CommandChannelSupport(UdpTransport, OpenWireFormat, int, SocketAddress, DatagramHeaderMarshaller) | STYLE | 51 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NONNULL_VALUE |
| org.apache.activemq.transport.udp.CommandDatagramChannel | | | | |
| Bug | Category | Line | Priority | Details |
| Increment of volatile field org.apache.activemq.transport.udp.CommandDatagramChannel.receiveCounter in org.apache.activemq.transport.udp.CommandDatagramChannel.read() | MT_CORRECTNESS | 90 | Medium | VO_VOLATILE_INCREMENT |
| org.apache.activemq.transport.udp.CommandDatagramSocket | | | | |
| Bug | Category | Line | Priority | Details |
| Increment of volatile field org.apache.activemq.transport.udp.CommandDatagramSocket.receiveCounter in org.apache.activemq.transport.udp.CommandDatagramSocket.read() | MT_CORRECTNESS | 75 | Medium | VO_VOLATILE_INCREMENT |
| org.apache.activemq.transport.udp.UdpTransportFactory | | | | |
| Bug | Category | Line | Priority | Details |
| Dead store to openWireFormat in org.apache.activemq.transport.udp.UdpTransportFactory.doBind(URI) | STYLE | 63 | Medium | DLS_DEAD_LOCAL_STORE |
| Dead store to port in org.apache.activemq.transport.udp.UdpTransportFactory.doBind(URI) | STYLE | 62 | Medium | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.transport.vm.VMTransport | | | | |
| Bug | Category | Line | Priority | Details |
| Possible doublecheck on org.apache.activemq.transport.vm.VMTransport.messageQueue in org.apache.activemq.transport.vm.VMTransport.getMessageQueue() | MT_CORRECTNESS | 266 | Medium | DC_DOUBLECHECK |
| Possible doublecheck on org.apache.activemq.transport.vm.VMTransport.taskRunner in org.apache.activemq.transport.vm.VMTransport.getTaskRunner() | MT_CORRECTNESS | 283 | Medium | DC_DOUBLECHECK |
| Inconsistent synchronization of org.apache.activemq.transport.vm.VMTransport.taskRunnerFactory; locked 50% of time | MT_CORRECTNESS | 204 | Medium | IS2_INCONSISTENT_SYNC |
| Synchronization performed on java.util.concurrent.atomic.AtomicBoolean in org.apache.activemq.transport.vm.VMTransport.dispatch(VMTransport, BlockingQueue, Object) | MT_CORRECTNESS | 112 | Medium | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Synchronization performed on java.util.concurrent.atomic.AtomicBoolean in org.apache.activemq.transport.vm.VMTransport.start() | MT_CORRECTNESS | 153 | Medium | JLM_JSR166_UTILCONCURREN T_MONITORENTER |
| Increment of volatile field org.apache.activemq.transport.vm.VMTransport.receiveCounter in org.apache.activemq.transport.vm.VMTransport.doDispatch(VMTransport, TransportListener, Object) | MT_CORRECTNESS | 137 | Medium | VO_VOLATILE_INCREMENT |
| Increment of volatile field org.apache.activemq.transport.vm.VMTransport.receiveCounter in org.apache.activemq.transport.vm.VMTransport.start() | MT_CORRECTNESS | 158 | Medium | VO_VOLATILE_INCREMENT |
| org.apache.activemq.transport.vm.VMTransportFactory | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.transport.vm.VMTransportFactory.doCompositeConnect(URI) | MT_CORRECTNESS | 129 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.transport.vm.VMTransportFactory.doCompositeConnect(URI) | MT_CORRECTNESS | 141 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| Redundant nullcheck of connector, which is known to be non-null in org.apache.activemq.transport.vm.VMTransportFactory.validateBroker(String) | STYLE | 260 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NONNULL_VALUE |
| org.apache.activemq.util.ByteArrayInputStream | | | | |
| Bug | Category | Line | Priority | Details |
| new org.apache.activemq.util.ByteArrayInputStream(byte[], int, int) may expose internal representation by storing an externally mutable object into ByteArrayInputStream.buffer | MALICIOUS_CODE | 42 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.util.ByteSequence | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.util.ByteSequence.getData() may expose internal representation by returning ByteSequence.data | MALICIOUS_CODE | 42 | Medium | EI_EXPOSE_REP |
| new org.apache.activemq.util.ByteSequence(byte[]) may expose internal representation by storing an externally mutable object into ByteSequence.data | MALICIOUS_CODE | 30 | Medium | EI_EXPOSE_REP2 |
| new org.apache.activemq.util.ByteSequence(byte[], int, int) may expose internal representation by storing an externally mutable object into ByteSequence.data | MALICIOUS_CODE | 36 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.util.ByteSequence.setData(byte[]) may expose internal representation by storing an externally mutable object into ByteSequence.data | MALICIOUS_CODE | 54 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.util.DataByteArrayInputStream | | | | |
| Bug | Category | Line | Priority | Details |
| Found reliance on default encoding in org.apache.activemq.util.DataByteArrayInputStream.readLine(): new String(byte[], int, int) | I18N | 249 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.util.DataByteArrayInputStream.getRawData() may expose internal representation by returning DataByteArrayInputStream.buf | MALICIOUS_CODE | 75 | Medium | EI_EXPOSE_REP |
| new org.apache.activemq.util.DataByteArrayInputStream(byte[]) may expose internal representation by storing an externally mutable object into DataByteArrayInputStream.buf | MALICIOUS_CODE | 40 | Medium | EI_EXPOSE_REP2 |

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| org.apache.activemq.util.DataByteArrayInputStream.restart(byte[]) may expose internal representation by storing an externally mutable object into DataByteArrayInputStream.buf | MALICIOUS_CODE | 85 | Medium | EI_EXPOSE_REP2 |
| org.apache.activemq.util.DataByteArrayInputStream.readFully(byte[]) ignores result of org.apache.activemq.util.DataByteArrayInputStream.read(byte[], int, int) | BAD_PRACTICE | 165 | Medium | RR_NOT_CHECKED |
| org.apache.activemq.util.DataByteArrayInputStream.readFully(byte[], int, int) ignores result of org.apache.activemq.util.DataByteArrayInputStream.read(byte[], int, int) | BAD_PRACTICE | 169 | Medium | RR_NOT_CHECKED |
| org.apache.activemq.util.DataByteArrayOutputStream | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.util.DataByteArrayOutputStream.getData() may expose internal representation by returning DataByteArrayOutputStream.buf | MALICIOUS_CODE | 115 | Medium | EI_EXPOSE_REP |
| org.apache.activemq.util.FactoryFinder\$StandaloneObjectFactory | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.util.FactoryFinder\$StandaloneObjectFactory.create(String) | MT_CORRECTNESS | 59 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| org.apache.activemq.util.FactoryFinder\$StandaloneObjectFactory.loadProperties(String) might ignore java.lang.Exception | BAD_PRACTICE | 110 | Medium | DE_MIGHT_IGNORE |
| org.apache.activemq.util.IOHelper | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.util.IOHelper.copySingleFile(File, File) may fail to clean up java.io.InputStream on checked exception | EXPERIMENTAL | 220 | Medium | OBL_UNSATISFIED_OBLIGATION_EXCEPTION_EDGE |
| org.apache.activemq.util.IndentPrinter | | | | |
| Bug | Category | Line | Priority | Details |
| Found reliance on default encoding in new org.apache.activemq.util.IndentPrinter(): new java.io.PrintWriter(OutputStream) | I18N | 33 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.util.IntrospectionSupport | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.util.IntrospectionSupport.extractProperties(Map, String) makes inefficient use of keySet iterator instead of entrySet iterator | PERFORMANCE | 130 | Medium | WMI_WRONG_MAP_ITERATOR |
| org.apache.activemq.util.IntrospectionSupport.setProperties(Object, Map, String) makes inefficient use of keySet iterator instead of entrySet iterator | PERFORMANCE | 109 | Medium | WMI_WRONG_MAP_ITERATOR |
| org.apache.activemq.util.IntrospectionSupport.toString(Object, Class, Map) makes inefficient use of keySet iterator instead of entrySet iterator | PERFORMANCE | 285 | Medium | WMI_WRONG_MAP_ITERATOR |
| org.apache.activemq.util.LRUSet | | | | |
| Bug | Category | Line | Priority | Details |
| Class org.apache.activemq.util.LRUSet implements Cloneable but does not define or use clone method | BAD_PRACTICE | 35 | Medium | CN_IDIOM |
| org.apache.activemq.util.LogWriterFinder | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.util.LogWriterFinder.newInstance(String) | MT_CORRECTNESS | 74 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| org.apache.activemq.util.LogWriterFinder.doFindLogWriterProperties(String) might ignore java.lang.Exception | BAD_PRACTICE | 135 | High | DE_MIGHT_IGNORE |
| org.apache.activemq.util.MarshallingSupport | | | | |
| Bug | Category | Line | Priority | Details |
| Found reliance on default encoding in org.apache.activemq.util.MarshallingSupport.propertiesToString(Properties): new String(byte[], int, int) | I18N | 387 | High | DM_DEFAULT_ENCODING |
| Found reliance on default encoding in org.apache.activemq.util.MarshallingSupport.stringToProperties(String): String.getBytes() | I18N | 396 | High | DM_DEFAULT_ENCODING |
| org.apache.activemq.util.MarshallingSupport.marshalPrimitiveMap(Map, DataOutputStream) makes inefficient use of keySet iterator instead of entrySet iterator | PERFORMANCE | 66 | Medium | WMI_WRONG_MAP_ITERATOR |
| org.apache.activemq.util.MessageComparatorSupport | | | | |
| Bug | Category | Line | Priority | Details |
| Load of known null value in org.apache.activemq.util.MessageComparatorSupport.compareComparators(Comparable, Comparable) | STYLE | 48 | Medium | NP_LOAD_OF_KNOWN_NULL_VALUE |
| Redundant nullcheck of comparable which is known to be null in org.apache.activemq.util.MessageComparatorSupport.compareComparators(Comparable, Comparable) | STYLE | 48 | Medium | RCN_REDUNDANT_NULLCHECK_OF_NULL_VALUE |
| org.apache.activemq.util.SubscriptionKey | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.util.SubscriptionKey.equals(Object) does not check for null argument | BAD_PRACTICE | 43 | Medium | NP_EQUALS_SHOULD_HANDLE_NULL_ARGUMENT |
| org.apache.activemq.util.TypeConversionSupport\$ConversionKey | | | | |
| Bug | Category | Line | Priority | Details |
| Equals method for org.apache.activemq.util.TypeConversionSupport\$ConversionKey assumes the argument is of type TypeConversionSupport\$ConversionKey | BAD_PRACTICE | 44 | Medium | BC_EQUALS_METHOD_SHOULD_WORK_FOR_ALL_OBJECTS |
| org.apache.activemq.util.TypeConversionSupport\$ConversionKey.equals(Object) does not check for null argument | BAD_PRACTICE | 44 | Medium | NP_EQUALS_SHOULD_HANDLE_NULL_ARGUMENT |
| org.apache.activemq.util.URISupport | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.util.URISupport.createQueryString(Map) makes inefficient use of keySet iterator instead of entrySet iterator | PERFORMANCE | 502 | Medium | WMI_WRONG_MAP_ITERATOR |
| org.apache.activemq.util.URISupport\$CompositeData | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.util.URISupport\$CompositeData.getComponents() may expose internal representation by returning URISupport\$CompositeData.components | MALICIOUS_CODE | 51 | Medium | EI_EXPOSE_REP |

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| org.apache.activemq.util.osgi.Activator | | | | |
| Bug | Category | Line | Priority | Details |
| Sequence of calls to java.util.concurrent.ConcurrentHashMap may not be atomic in org.apache.activemq.util.osgi.Activator.create(String) | MT_CORRECTNESS | 164 | Medium | AT_OPERATION_SEQUENCE_ON_CONCURRENT_ABSTRACTION |
| org.apache.activemq.util.osgi.Activator.loadProperties(URL) might ignore java.lang.Exception | BAD_PRACTICE | 200 | Medium | DE_MIGHT_IGNORE |
| Dead store to br in org.apache.activemq.util.osgi.Activator.loadProperties(URL) | STYLE | 193 | High | DLS_DEAD_LOCAL_STORE |
| org.apache.activemq.util.osgi.Activator.loadProperties(URL) may fail to close stream | BAD_PRACTICE | 193 | Medium | OS_OPEN_STREAM |
| org.apache.activemq.wireformat.ObjectStreamWireFormat | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.wireformat.ObjectStreamWireFormat.marshal(Object, DataOutput) may fail to close stream | BAD_PRACTICE | 53 | Medium | OS_OPEN_STREAM |
| org.apache.activemq.xbean.BrokerFactoryBean\$1 | | | | |
| Bug | Category | Line | Priority | Details |
| org.apache.activemq.xbean.BrokerFactoryBean\$1.run() invokes System.exit(...), which shuts down the entire virtual machine | BAD_PRACTICE | 109 | Medium | DM_EXIT |