



# Java Code Examples for javax.jms.QueueReceiver

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**Code Example 1:**

8

From project *activemq*, under directory */activemq-core/src/test/java/org/apache/activemq/bugs/*.

Source *AMQ2084Test.java*

```
public void listenQueue(final String queueName,final String selectors){
  try {
    Properties props=new Properties();
    props.put("java.naming.factory.initial","org.apache.activemq.jndi.ActiveMQInitialContextFactory");
    props.put("java.naming.provider.url",connectionUri);
    props.put("queue.queueName",queueName);
    javax.naming.Context ctx=new InitialContext(props);
    QueueConnectionFactory factory=(QueueConnectionFactory)ctx.lookup("ConnectionFactory");
    QueueConnection conn=factory.createQueueConnection();
    final Queue queue=(Queue)ctx.lookup("queueName");
    QueueSession session=conn.createQueueSession(false,Session.AUTO_ACKNOWLEDGE);
    QueueReceiver receiver=session.createReceiver(queue,selectors);
    System.out.println("Message Selector: " + receiver.getMessageSelector());
    receiver.setMessageListener(new MessageListener(){
      public void onMessage(      Message message){
        try {
          if (message instanceof TextMessage) {
            TextMessage txtMsg=(TextMessage)message;
            String msg=txtMsg.getText();
            LOG.info("Queue Message Received: " + queueName + " - "+ msg);
            qreceived.countDown();
          }
          message.acknowledge();
        }
 catch (        Throwable e) {
          e.printStackTrace();
        }
      }
    }
);
    conn.start();
  }
 catch (  Exception e) {
    e.printStackTrace();
  }
}
```

**Code Example 2:**

8

From project *jms*, under directory */testsuite/src/test/java/org/jboss/seam/jms/test/bridge/route/*.

Source *RouteTest.java*

```
@Test public void forwardSimpleEvent() throws JMSException {
  String expected="'configured via Collection<Route>'";
  QueueReceiver qr=messageManager.createQueueReceiver("jms/RouteTest");
  clear(qr);
  event_viaCollectionRouteConfig.fire(expected);
  Message m=qr.receive(3000);
  qr.close();
  Assert.assertTrue(m != null);
  Assert.assertTrue(m instanceof TextMessage);
  Assert.assertEquals(expected,((TextMessage)m).getText());
}
```

**Code Example 3:**

8

From project *jms*, under directory */testsuite/src/test/java/org/jboss/seam/jms/test/bridge/route/*.

Source *RouteTest.java*

```
@Test public void noMatchingRoutes() throws JMSException {
  String expected="'no matching route'";
  QueueReceiver qr=messageManager.createQueueReceiver("jms/RouteTest");
  clear(qr);
  plainEvent.fire(expected);
  Message m=qr.receive(3000);
  qr.close();
  Assert.assertNull("Unexpectedly received a message",m);
}
```

**Code Example 4:**

8

From project *jms*, under directory */testsuite/src/test/java/org/jboss/seam/jms/test/bridge/route/*.

Source *RouteTest.java*

```
@Test public void forwardSimpleEvent_via_single_route_config() throws JMSException {
  String expected="'configured via Route'";
  QueueReceiver qr=messageManager.createQueueReceiver("jms/RouteTest");
  clear(qr);
  event_viaSingleRouteConfig.fire(expected);
  Message m=qr.receive(3000);
  qr.close();
  Assert.assertTrue(m != null);
  Assert.assertTrue(m instanceof TextMessage);
  Assert.assertEquals(expected,((TextMessage)m).getText());
}
```

**Code Example 5:**

7

From project *etk-erp*, under directory */component/service/src/main/java/org/ofbiz/service/jms/*.

Source *JmsQueueListener.java*

```
public synchronized void load() throws GenericServiceException {
  try {
    InitialContext jndi=JNDIContextFactory.getInitialContext(jndiServer);
    QueueConnectionFactory factory=(QueueConnectionFactory)jndi.lookup(jndiName);
    if (factory != null) {
      con=factory.createQueueConnection(userName,password);
      con.setExceptionListener(this);
      session=con.createQueueSession(false,Session.AUTO_ACKNOWLEDGE);
      queue=(Queue)jndi.lookup(queueName);
      if (queue != null) {
        QueueReceiver receiver=session.createReceiver(queue);
        receiver.setMessageListener(this);
        con.start();
        this.setConnected(true);
        Debug.logInfo("Listening to queue [" + queueName + "]...",module);
      }
 else {
        throw new GenericServiceException("Queue lookup failed.");
      }
    }
 else {
      throw new GenericServiceException("Factory (broker) lookup failed.");
    }
  }
 catch (  NamingException ne) {
    throw new GenericServiceException("JNDI lookup problems; listener not running.",ne);
  }
catch (  JMSException je) {
    throw new GenericServiceException("JMS internal error; listener not running.",je);
  }
catch (  GeneralException ge) {
    throw new GenericServiceException("Problems with InitialContext; listener not running.",ge);
  }
}
```

**Code Example 6:**

7

From project *hornetq*, under directory */hornetq-ra/src/main/java/org/hornetq/ra/*.

Source *HornetQRASession.java*

```
/**
 * Create a queue receiver
 * @param queue The queue
 * @return The queue receiver
 * @exception JMSException Thrown if an error occurs
 */
public QueueReceiver createReceiver(final Queue queue) throws JMSException {
  lock();
  try {
    QueueSession session=getQueueSessionInternal();
    if (HornetQRASession.trace) {
      HornetQRALogger.LOGGER.trace("createReceiver " + session + " queue="+ queue);
    }
    QueueReceiver result=session.createReceiver(queue);
    result=new HornetQRAQueueReceiver(result,this);
    if (HornetQRASession.trace) {
      HornetQRALogger.LOGGER.trace("createdReceiver " + session + " receiver="+ result);
    }
    addConsumer(result);
    return result;
  }
  finally {
    unlock();
  }
}
```

**Code Example 7:**

7

From project *hornetq*, under directory */hornetq-ra/src/main/java/org/hornetq/ra/*.

Source *HornetQRASession.java*

```
/**
 * Create a queue receiver
 * @param queue The queue
 * @param messageSelector
 * @return The queue receiver
 * @exception JMSException Thrown if an error occurs
 */
public QueueReceiver createReceiver(final Queue queue,final String messageSelector) throws JMSException {
  lock();
  try {
    QueueSession session=getQueueSessionInternal();
    if (HornetQRASession.trace) {
      HornetQRALogger.LOGGER.trace("createReceiver " + session + " queue="+ queue+ " selector="+ messageSelector);
    }
    QueueReceiver result=session.createReceiver(queue,messageSelector);
    result=new HornetQRAQueueReceiver(result,this);
    if (HornetQRASession.trace) {
      HornetQRALogger.LOGGER.trace("createdReceiver " + session + " receiver="+ result);
    }
    addConsumer(result);
    return result;
  }
  finally {
    unlock();
  }
}
```

**Code Example 8:**

7

From project *hornetq*, under directory */tests/jms-tests/src/test/java/org/hornetq/jms/tests/*.

Source *QueueReceiverTest.java*

```
/**
 * com.sun.ts.tests.jms.ee.all.queueconn.QueueConnTest line 171
 */
public void testCreateReceiverWithMessageSelector() throws Exception {
  QueueConnection qc=null;
  try {
    qc=JMSTestCase.cf.createQueueConnection();
    QueueSession qs=qc.createQueueSession(false,Session.AUTO_ACKNOWLEDGE);
    QueueReceiver qreceiver=qs.createReceiver(HornetQServerTestCase.queue1,"targetMessage = TRUE");
    qc.start();
    TextMessage m=qs.createTextMessage();
    m.setText("one");
    m.setBooleanProperty("targetMessage",false);
    QueueSender qsender=qs.createSender(HornetQServerTestCase.queue1);
    qsender.send(m);
    m.setText("two");
    m.setBooleanProperty("targetMessage",true);
    qsender.send(m);
    TextMessage rm=(TextMessage)qreceiver.receive(1000);
    ProxyAssertSupport.assertEquals("two",rm.getText());
  }
  finally {
    if (qc != null) {
      qc.close();
    }
    Thread.sleep(2000);
    removeAllMessages(HornetQServerTestCase.queue1.getQueueName(),true);
    checkEmpty(HornetQServerTestCase.queue1);
  }
}
```

**Code Example 9:**

7

From project *hornetq*, under directory */tests/jms-tests/src/test/java/org/hornetq/jms/tests/*.

Source *QueueRequestorTest.java*

```
public void testQueueRequestor() throws Exception {
  QueueConnection conn1=null;
  QueueConnection conn2=null;
  try {
    conn1=JMSTestCase.cf.createQueueConnection();
    QueueSession sess1=conn1.createQueueSession(false,Session.AUTO_ACKNOWLEDGE);
    QueueRequestor requestor=new QueueRequestor(sess1,HornetQServerTestCase.queue1);
    conn1.start();
    conn2=JMSTestCase.cf.createQueueConnection();
    QueueSession sess2=conn2.createQueueSession(false,Session.AUTO_ACKNOWLEDGE);
    TestMessageListener listener=new TestMessageListener(sess2);
    QueueReceiver receiver=sess2.createReceiver(HornetQServerTestCase.queue1);
    receiver.setMessageListener(listener);
    conn2.start();
    Message m1=sess1.createMessage();
    log.trace("Sending request message");
    TextMessage m2=(TextMessage)requestor.request(m1);
    ProxyAssertSupport.assertNotNull(m2);
    ProxyAssertSupport.assertEquals("This is the response",m2.getText());
  }
  finally {
    if (conn1 != null) {
      conn1.close();
    }
    if (conn2 != null) {
      conn2.close();
    }
  }
}
```

**Code Example 10:**

7

From project *jboss-as*, under directory */testsuite/integration/basic/src/test/java/org/jboss/as/test/integration/ejb/mdb/*.

Source *JMSMessageDrivenBeanTestCase.java*

```
@Test public void testSendMessage() throws JMSException, NamingException {
  final InitialContext ctx=new InitialContext();
  final QueueConnectionFactory factory=(QueueConnectionFactory)ctx.lookup("java:/JmsXA");
  final QueueConnection connection=factory.createQueueConnection();
  connection.start();
  try {
    final QueueSession session=connection.createQueueSession(false,Session.AUTO_ACKNOWLEDGE);
    final Queue replyDestination=session.createTemporaryQueue();
    final QueueReceiver receiver=session.createReceiver(replyDestination);
    final Message message=session.createTextMessage("Test");
    message.setJMSReplyTo(replyDestination);
    final Destination destination=(Destination)ctx.lookup("queue/myAwesomeQueue");
    final MessageProducer producer=session.createProducer(destination);
    producer.send(message);
    producer.close();
    final Message reply=receiver.receive(1000);
    assertNotNull(reply);
    final String result=((TextMessage)reply).getText();
    assertEquals("replying Test",result);
  }
  finally {
  }
}
```

**Code Example 11:**

7

From project *jboss-as*, under directory */testsuite/integration/basic/src/test/java/org/jboss/as/test/integration/ejb/pool/lifecycle/*.

Source *PooledEJBLifecycleTestCase.java*

```
private void triggerMDB() throws Exception {
  final InitialContext ctx=new InitialContext();
  final QueueConnectionFactory factory=(QueueConnectionFactory)ctx.lookup("java:/JmsXA");
  final QueueConnection connection=factory.createQueueConnection();
  connection.start();
  final QueueSession session=connection.createQueueSession(false,Session.AUTO_ACKNOWLEDGE);
  final Queue replyDestination=session.createTemporaryQueue();
  final QueueReceiver receiver=session.createReceiver(replyDestination);
  final Message message=session.createTextMessage("Test");
  message.setJMSReplyTo(replyDestination);
  final Destination destination=(Destination)ctx.lookup("queue/myAwesomeQueue");
  final MessageProducer producer=session.createProducer(destination);
  producer.send(message);
  producer.close();
  final Message reply=receiver.receive(1000);
  assertNotNull(reply);
  final String result=((TextMessage)reply).getText();
  assertEquals("replying Test",result);
}
```

**Code Example 12:**

7

From project *jboss-as*, under directory */testsuite/integration/basic/src/test/java/org/jboss/as/test/integration/ejb/security/*.

Source *MDBRoleTestCase.java*

```
@Test public void testIsMDBinRole() throws NamingException, JMSException {
  final InitialContext ctx=new InitialContext();
```

```
  final QueueConnectionFactory factory=(QueueConnectionFactory)ctx.lookup("java:/JmsXA");
  final QueueConnection connection=factory.createQueueConnection();
  connection.start();
  final QueueSession session=connection.createQueueSession(false,Session.AUTO_ACKNOWLEDGE);
  final Queue replyDestination=session.createTemporaryQueue();
  final QueueReceiver receiver=session.createReceiver(replyDestination);
  final Message message=session.createTextMessage("Let's test it!");
  message.setJMSReplyTo(replyDestination);
  final Destination destination=(Destination)ctx.lookup("queue/myAwesomeQueue");
  final MessageProducer producer=session.createProducer(destination);
  producer.send(message);
  producer.close();
  final Message reply=receiver.receive(TimeoutUtil.adjust(5000));
  assertNotNull(reply);
  final String result=((TextMessage)reply).getText();
  assertEquals(SimpleSLSB.SUCCESS,result);
}
```

**Code Example 13:**

7

From project *ofbiz*, under directory */framework/service/src/org/ofbiz/service/jms/*.

Source *JmsQueueListener.java*

```
public synchronized void load() throws GenericServiceException {
  try {
    InitialContext jndi=JNDIContextFactory.getInitialContext(jndiServer);
    QueueConnectionFactory factory=(QueueConnectionFactory)jndi.lookup(jndiName);
    if (factory != null) {
      con=factory.createQueueConnection(userName,password);
      con.setExceptionListener(this);
      session=con.createQueueSession(false,Session.AUTO_ACKNOWLEDGE);
      queue=(Queue)jndi.lookup(queueName);
      if (queue != null) {
        QueueReceiver receiver=session.createReceiver(queue);
        receiver.setMessageListener(this);
        con.start();
        this.setConnected(true);
        Debug.logInfo("Listening to queue [" + queueName + "]...",module);
      }
 else {
        throw new GenericServiceException("Queue lookup failed.");
      }
    }
 else {
      throw new GenericServiceException("Factory (broker) lookup failed.");
    }
  }
 catch (  NamingException ne) {
    throw new GenericServiceException("JNDI lookup problems; listener not running.",ne);
  }
catch (  JMSException je) {
    throw new GenericServiceException("JMS internal error; listener not running.",je);
  }
catch (  GeneralException ge) {
    throw new GenericServiceException("Problems with InitialContext; listener not running.",ge);
  }
}
```

**Code Example 14:**

5

From project *activemq*, under directory */activemq-core/src/main/java/org/apache/activemq/*.

Source *ActiveMQSession.java*

```
/**
 * Creates a <CODE>QueueReceiver</CODE> object to receive messages from the specified queue using a message selector.
 * @param queue the <CODE>Queue</CODE> to access
 * @param messageSelector only messages with properties matching the messageselector expression are delivered. A value of null or an empty string indicates that there is no message selector for the message consumer.
 * @return QueueReceiver
 * @throws JMSException if the session fails to create a receiver due tosome internal error.
 * @throws InvalidDestinationException if an invalid queue is specified.
 * @throws InvalidSelectorException if the message selector is invalid.
 */
public QueueReceiver createReceiver(Queue queue,String messageSelector) throws JMSException {
  checkClosed();
  if (queue instanceof CustomDestination) {
    CustomDestination customDestination=(CustomDestination)queue;
    return customDestination.createReceiver(this,messageSelector);
  }
  ActiveMQPrefetchPolicy prefetchPolicy=this.connection.getPrefetchPolicy();
  return new ActiveMQQueueReceiver(this,getNextConsumerId(),ActiveMQMessageTransformation.transformDestination(queue),messageSelector,prefetchPolicy.getQueuePrefetch(),prefetchPolicy.getMaximumPendingMessageLimit(),asyncDispatch);
}
```

**Code Example 15:**

5

From project *hornetq*, under directory */hornetq-ra/src/main/java/org/hornetq/ra/*.

Source *HornetQRAQueueReceiver.java*

```
/**
 * Get queue
 * @return The queue
 * @exception JMSException Thrown if an error occurs
 */
public Queue getQueue() throws JMSException {
  if (HornetQRAQueueReceiver.trace) {
    HornetQRALogger.LOGGER.trace("getQueue()");
  }
  checkState();
  return ((QueueReceiver)consumer).getQueue();
}
```

**Code Example 16:**

5

From project *hornetq*, under directory */tests/jms-tests/src/test/java/org/hornetq/jms/tests/*.

Source *MessageConsumerTest.java*

```
public void testGetQueue() throws Exception {
  Connection consumerConnection=null;
  try {
    consumerConnection=JMSTestCase.cf.createConnection();
    Session consumerSession=consumerConnection.createSession(false,Session.AUTO_ACKNOWLEDGE);
    MessageConsumer queueConsumer=consumerSession.createConsumer(HornetQServerTestCase.queue1);
    Queue q=((QueueReceiver)queueConsumer).getQueue();
    ProxyAssertSupport.assertEquals(HornetQServerTestCase.queue1,q);
  }
  finally {
    if (consumerConnection != null) {
      consumerConnection.close();
    }
  }
}
```

**Code Example 17:**

5

From project *hornetq*, under directory */tests/jms-tests/src/test/java/org/hornetq/jms/tests/*.

Source *MessageConsumerTest.java*

```
public void testGetQueueOnClosedConsumer() throws Exception {
  Connection consumerConnection=null;
```

```
  try {
    consumerConnection=JMSTestCase.cf.createConnection();
    Session consumerSession=consumerConnection.createSession(false,Session.AUTO_ACKNOWLEDGE);
    MessageConsumer queueConsumer=consumerSession.createConsumer(HornetQServerTestCase.queue1);
    queueConsumer.close();
    try {
      ((QueueReceiver)queueConsumer).getQueue();
      fail("must throw a JMS IllegalStateException");
    }
 catch (    javax.jms.IllegalStateException e) {
    }
  }
  finally {
    if (consumerConnection != null) {
      consumerConnection.close();
    }
  }
}
```

**Code Example 18:**

5

From project *i2b2_1.6_Postgres*, under directory */coreserver/src/edu.harvard.i2b2.crc/src/server/edu/harvard/i2b2/crc/ejb/*.

Source *QueryManagerBeanUtil.java*

```
public void closeAll(QueueSender send,QueueReceiver recv,QueueConnection conn,QueueSession session){
  try {
    if (send != null) {
      send.close();
    }
    if (recv != null) {
      recv.close();
    }
    if (conn != null) {
      conn.stop();
      if (conn != null) {
        conn.close();
      }
    }
    if (session != null) {
      session.close();
    }
  }
 catch (  JMSException jmse) {
    jmse.printStackTrace();
  }
}
```

**Code Example 19:**

5

From project *jms*, under directory */impl/src/main/java/org/jboss/seam/jms/tools/*.

Source *JMSResourceManager.java*

```
@PreDestroy public void shutdown(){
  for (  MessageConsumer mc : messageConsumers) {
    try {
      mc.close();
    }
 catch (    JMSException e) {
      logger.debug("Unable to close message consumer",e);
    }
  }
  for (  TopicSubscriber ts : topicSubscribes) {
    try {
      ts.close();
    }
 catch (    JMSException e) {
      logger.debug("Unable to close topic subscriber",e);
    }
  }
  for (  QueueReceiver qr : receives) {
    try {
      qr.close();
    }
 catch (    JMSException e) {
      logger.debug("Unable to close queue receiver",e);
    }
  }
  for (  Connection conn : closeableConnections) {
    try {
      conn.close();
      conn.stop();
    }
 catch (    JMSException e) {
      logger.debug("Unable to close connection",e);
    }
  }
}
```

**Code Example 20:**

5

From project *openwebbeans*, under directory */webbeans-jms/src/main/java/org/apache/webbeans/jms/component/*.

Source *JmsComponentFactory.java*

```
public <T>JmsBean<T> getJmsComponent(JMSModel model){
  Asserts.assertNotNull(model,"model parameter can not be null");
  JmsBean<T> component=new JmsBean<T>(model);
  if (model.getJmsType().equals(JMSType.QUEUE)) {
    component.addApiType(Queue.class);
    component.addApiType(QueueConnection.class);
    component.addApiType(QueueSession.class);
    component.addApiType(QueueSender.class);
    component.addApiType(QueueReceiver.class);
  }
 else {
    component.addApiType(Topic.class);
    component.addApiType(TopicConnection.class);
    component.addApiType(TopicSession.class);
    component.addApiType(TopicPublisher.class);
    component.addApiType(TopicSubscriber.class);
  }
  component.setImplScopeType(new DependentScopeLiteral());
  Annotation[] anns=model.getBindings();
  for (  Annotation a : anns) {
    component.addQualifier(a);
  }
  return component;
}
```