The Message Driven Bean does not get reconnected after the MQ channel restarted. I need to restart the Jboss server to get it working again. There are no messages shown in the log to indicate any reconnection ever attempts. Even messages were inserted into the queue, nothing is received by the Message Driven Bean, onMessage(), after the channel restored. Please advise what have been missing.

I am using wmq.jmsra.rar IBM Resource Adapter, with the default reconnect setting in the ra.xml.

IBM Resource Adapter version: 7.0.0.0 - k000-L080529

Jboss Servers tried : Jboss 4.0.3SP1, Jboss 4.2.3GA

I use the configuration suggested in:

<http://community.jboss.org/wiki/UsingWebSphereMQSeriesWithJBossASPart4>

<http://www.ibm.com/developerworks/websphere/library/techarticles/0710_ritchie/0710_ritchie.html>

Here is the configuration:

1. Jboss: server\default\deploy\xxx-ds.xml:

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

<datasources>

<tx-connection-factory>

<jndi-name>wmq/myCF</jndi-name>

<xa-transaction></xa-transaction>

<rar-name>wmq.jmsra.rar</rar-name>

<connection-definition>javax.jms.ConnectionFactory</connection-definition>

<config-property name="channel" type="java.lang.String">XXXDATA.COMM.SVRCONN</config-property>

<config-property name="hostName" type="java.lang.String">XXXLSTIS01</config-property>

<config-property name="port" type="java.lang.String">3434</config-property>

<config-property name="queueManager" type="java.lang.String">XXXHDA01</config-property>

<config-property name="transportType" type="java.lang.String">CLIENT</config-property>

<security-domain-and-application>JmsXARealm</security-domain-and-application>

<max-pool-size>1</max-pool-size>

</tx-connection-factory>

</datasources>

1. In the deploy\JMS directory:

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

<server>

<mbean code="org.jboss.resource.deployment.AdminObject"

name="jboss.jca:service=WASDestination,name=myQ">

<depends optional-attribute-name="RARName">jboss.jca:service=RARDeployment,name='wmq.jmsra.rar'</depends>

<attribute name="JNDIName">myQ</attribute>

<attribute name="Type">javax.jms.Queue</attribute>

<attribute name="Properties">

baseQueueManagerName=XXXHDA01

baseQueueName=TEST.IN

</attribute>

</mbean>

</server>

1. Jboss.xml:

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

<!DOCTYPE jboss PUBLIC "-//JBoss//DTD JBOSS 3.2//EN" "http://www.jboss.org/j2ee/dtd/jboss\_3\_2.dtd">

<jboss>

<enterprise-beans>

<message-driven>

<ejb-name>TestMDMMessageDrivenBean</ejb-name>

<invoker-bindings>

<invoker>

<invoker-proxy-binding-name>message-inflow-driven-bean</invoker-proxy-binding-name>

</invoker>

</invoker-bindings>

<resource-adapter-name>wmq.jmsra.rar</resource-adapter-name>

<activation-config>

<activation-config-property>

<activation-config-property-name>destinationType</activation-config-property-name>

<activation-config-property-value>javax.jms.Queue</activation-config-property-value>

</activation-config-property>

<activation-config-property>

<activation-config-property-name>destination</activation-config-property-name>

<activation-config-property-value>myQ</activation-config-property-value>

</activation-config-property>

<activation-config-property>

<activation-config-property-name>channel</activation-config-property-name>

<activation-config-property-value>XXXDATA.COMM.SVRCONN</activation-config-property-value>

</activation-config-property>

<activation-config-property>

<activation-config-property-name>hostName</activation-config-property-name>

<activation-config-property-value>XXXLSTIS01</activation-config-property-value>

</activation-config-property>

<activation-config-property>

<activation-config-property-name>port</activation-config-property-name>

<activation-config-property-value>3434</activation-config-property-value>

</activation-config-property>

<activation-config-property>

<activation-config-property-name>queueManager</activation-config-property-name>

<activation-config-property-value>XXXHDA01</activation-config-property-value>

</activation-config-property>

<activation-config-property>

<activation-config-property-name>transportType</activation-config-property-name>

<activation-config-property-value>CLIENT</activation-config-property-value>

</activation-config-property>

<activation-config-property>

<activation-config-property-name>useJNDI</activation-config-property-name>

<activation-config-property-value>true</activation-config-property-value>

</activation-config-property>

</activation-config>

</message-driven>

</enterprise-beans>

</jboss>

1. ejb-jar.xml:

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

<!DOCTYPE ejb-jar PUBLIC "-//Sun Microsystems, Inc.//DTD Enterprise JavaBeans 2.0//EN" "http://java.sun.com/dtd/ejb-jar\_2\_0.dtd">

<ejb-jar>

<enterprise-beans>

<message-driven>

<display-name>TestMDM</display-name>

<ejb-name>TestMDMMessageDrivenBean</ejb-name>

<ejb-class>mdb.test.TestMDMMessageDrivenBean</ejb-class>

<messaging-type>javax.jms.MessageListener</messaging-type>

<transaction-type>Container</transaction-type>

<resource-ref>

<res-ref-name>wmq/myCF</res-ref-name>

<res-type>javax.jms.ConnectionFactory</res-type>

<res-auth>Container</res-auth>

</resource-ref>

</message-driven>

</enterprise-beans>

<!-- Assembly Descriptor -->

<assembly-descriptor >

<method-permission>

<unchecked/>

<method>

<ejb-name>TestMDMMessageDrivenBean</ejb-name>

<method-name>\*</method-name>

</method>

</method-permission>

<container-transaction>

<method>

<ejb-name>TestMDMMessageDrivenBean</ejb-name>

<method-name>onMessage</method-name>

</method>

<trans-attribute>NotSupported</trans-attribute>

</container-transaction>

</assembly-descriptor>

</ejb-jar>

I also tried in jboss.xml, to define the TestMDMMessageDrivenBean to refer to my own invoker-proxy-binding, which has reconnectInterval setting, but does not make any differences:

<invoker-bindings>

<invoker>

<invoker-proxy-binding-name>wsmq-message-driven-bean</invoker-proxy-binding-name>

</invoker>

</invoker-bindings>

Where wsmq-message-driven-bean is in jboss.xml:

<invoker-proxy-bindings>

<invoker-proxy-binding>

<name>wsmq-message-driven-bean</name>

<invoker-mbean>default</invoker-mbean>

<proxy-factory>org.jboss.ejb.plugins.inflow.JBossMessageEndpointFactory</proxy-factory>

<proxy-factory-config>

<endpoint-interceptors>

<interceptor>org.jboss.proxy.ClientMethodInterceptor</interceptor>

<interceptor>org.jboss.ejb.plugins.inflow.MessageEndpointInterceptor</interceptor>

<interceptor>org.jboss.proxy.TransactionInterceptor</interceptor>

<interceptor>org.jboss.invocation.InvokerInterceptor</interceptor>

</endpoint-interceptors>

<MinimumSize>1</MinimumSize>

<MaximumSize>1</MaximumSize>

<KeepAliveMillis>30000</KeepAliveMillis>

<MaxMessages>1</MaxMessages>

<MDBConfig>

<ReconnectIntervalSec>10</ReconnectIntervalSec>

<DLQConfig>

<DestinationQueue>queue/DLQ</DestinationQueue>

<MaxTimesRedelivered>10</MaxTimesRedelivered>

<TimeToLive>0</TimeToLive>

</DLQConfig>

</MDBConfig>

</proxy-factory-config>

</invoker-proxy-binding>

</invoker-proxy-bindings>