Community TechNote

∮ software AG

Using webMethods Integration Server with ActiveMQ

Abstract

Integration Server (IS) supports sending and receiving messages with the most widely used JMS providers through its JMS features.

Applicability

Product: Integration Server Versions: 7.1.x, 8.0, 8.2

This document describes how to configure a JMS connection to an ActiveMQ JMS provider, which is not described in the standard documentation.

Important Note

Software AG has not formally tested and explicitly does not support this type of connection with ActiveMQ JMS. The configuration described here has been found to work in the field and anyone using this configuration does so at their own risk.

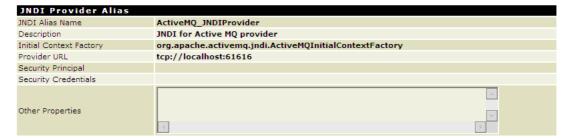
Configuration

- 1. Add activemq-all-5.2.0.jar to https://lib/jars
- 2. Restart the Integration server
- 3. Create JNDI provider alias by navigating to Settings > Messaging > JNDI Settings in the IS admin console



Settings > Messaging > JNDI Settings > JNDI Provider Alias

- Return to JNDI Settings
- Edit JNDI Provider Alias



4. On using the 'Test Lookup' feature you should be able to see the connection factories and destinations on Active MQ

Settings > Messaging > JNDI Settings

- · Return to Messaging
- Create JNDI Provider Alias

JNDI Provider Alias Definitions			
JNDI Alias Name	Description	Test Lookup	De
ActiveMQ_JNDIProvider	JNDI for Active MQ provider	•	
ConnectionFactory: org.apache.activemq.ActiveMQConnection QueueConnectionFactory: org.apache.activemq.ActiveMQConn TopicConnectionFactory: org.apache.activemq.ActiveMQConne dynamicQueues: org.apache.activemq.jndi.ActiveMQInitialCond dynamicTopics: org.apache.activemq.jndi.ActiveMQInitialCont	ectionFactory :ctionFactory textFactory\$1		

5. Create JMS connection alias using the JNDI provider alias create above

Settings > Messaging > JMS Settings > JMS Connection Alias

- . Return to JMS Settings
- . Edit JMS Connection Alias

General Settings	
Connection Alias Name	ActiveMQ_JMS_Connection
Enabled	√Yes
Description	JMS connection alias for Active MQ
Transaction Type	NO_TRANSACTION
Connection Client ID	ActiveMQ_Client
User	
Password	
Connection Protocol Settings	
Create Connection Using	JNDI LOOKUP
JNDI Provider Alias	ActiveMQ_JNDIProvider
Connection Factory Lookup Name	ConnectionFactory
Advanced Settings	
Class Loader	INTEGRATION_SERVER
Maximum CSQ Size	UNLIMITED
Drain CSQ In Order	Yes
* Enabled Connection Aliases can not be edited.	

6. Enable the JMS connection - it should be enabled without errors

Settings > Messaging > JMS Settings

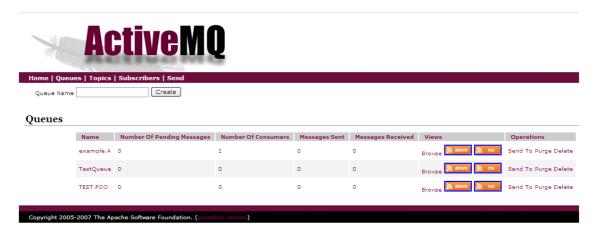
JMS Connection Alias "ActiveMQ_JMS_Connection" set to enabled

- Return to Messaging
- Create JMS Connection Alias
- Refresh Page

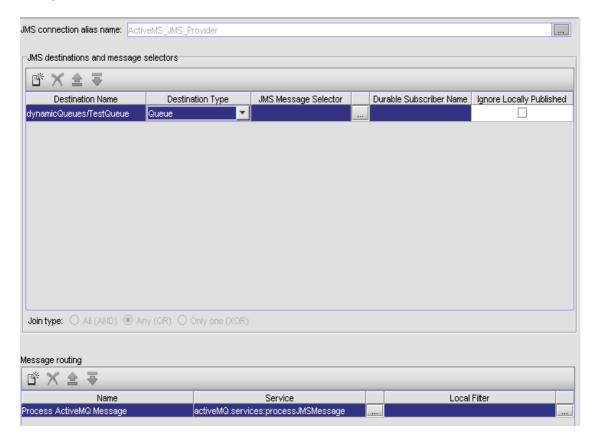
JMS Connection Alias Definitions						
Connection Alias Name	Description	Transaction Type	CSQ Count	Enabled		
ActiveMQ JMS Connection	JMS connection alias for Active MQ	NO TRANSACTION	0	√Yes		

Receiving Messages

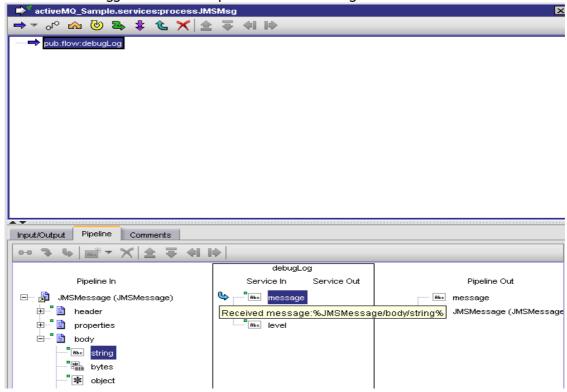
1. Assuming a queue named 'TestQueue' has already been created on Active MQ



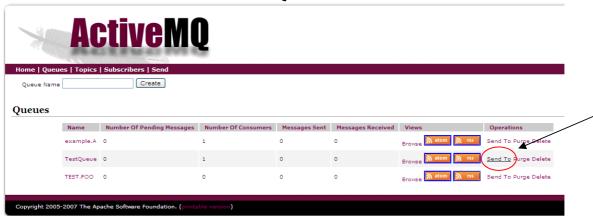
2. Create a trigger. Ensure that you specify the destination name as dynamicQueues/TestQueue.



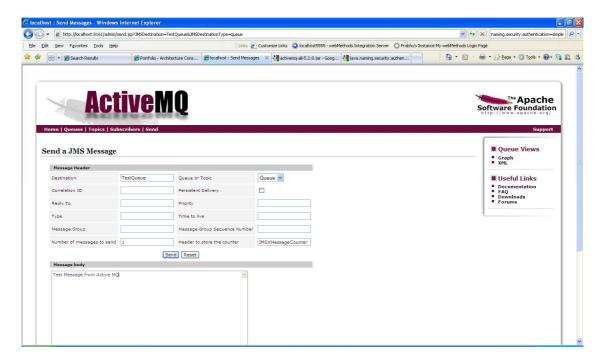
3. Use a trigger service that prints out the message



4. Click on "Send To" on the Active MQ UI



5. Enter a message in the body and press 'Send'

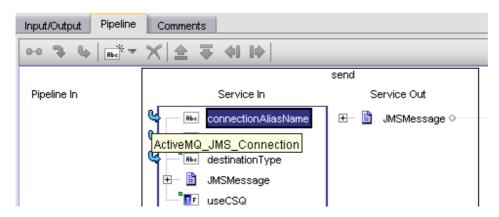


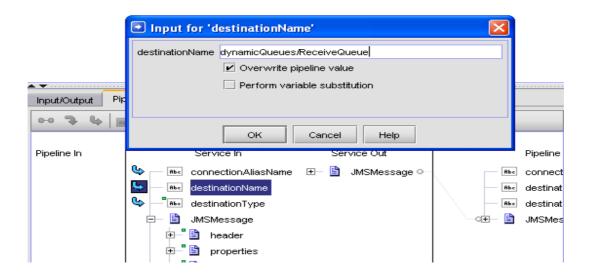
6. You should see a message in the IS server log, indicating successful subscription from IS



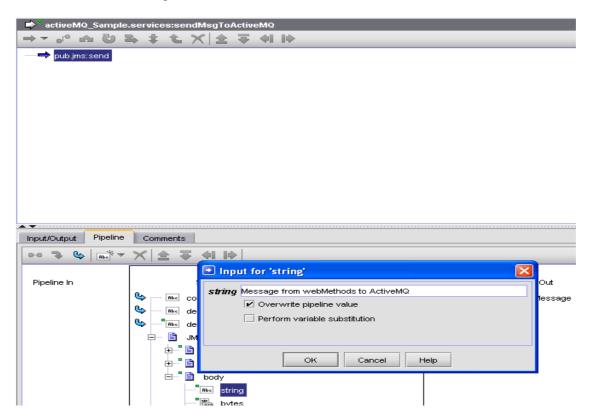
Sending Messages

- Create a flow service which uses the use the built-in service pub:jms:send to send a message to the ActiveMQ queue
- 2. Specify the connection alias and destination name and type

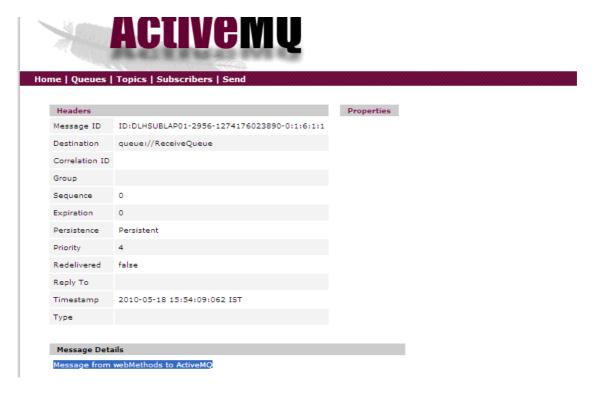




3. Add Test message and run the service



4. Browse the 'ReceiveQueue' on Active MQ UI, you should see the message with the appropriate content in the body



The information in this document is provided as-is and with no warranty whatsoever. Software AG cannot be held responsible for the results of any inaccuracies.