

# Configuring Business Monitor for Event Consumption from WebSphere MQ

by Seth - Wednesday, June 11, 2014

<http://www.sethgagnon.com/configuring-business-monitor-event-consumption-websphere-mq-2/>

## Overview

The document outlines how to configure the Business Monitor infrastructure to consume events from a WebSphere MQ Queue. Please note that some of the images may have blocked out content. This is to ensure privacy of the actual content that was used in the screen shots.

There is some pre-requisite information that you will need before configuring the infrastructure:

1. Host name of the MQ server
2. Queue manager name
3. Port
4. Queue name
5. Server connection channel

There are four parts to setting up this infrastructure:

Part I – Create a Queue Connection Factory

Part II – Create a Queue

Part III – Create an Event Listener

Part IV – Deploy and Configure the MDB application

## Part I – Create a Queue Connection Factory

First, you will need to create a Queue Connection Factory in the WebSphere Business Monitor admin console.

Navigate to Resources > JMS > Queue connection factories. Select the scope for where you want to create the resource (Support cluster in this case). Click New.

Select WebSphere MQ messaging provider and click OK:

Enter a Name and JNDI name for this connection factory. Remember this information as you will need it later. Click Next.

Select Enter all the required information into this wizard and click Next:

Enter the Queue Manager name and click Next:

For the Transport, select Client. Enter the hostname and port for the MQ server, as well as, the Server connection channel. Click Next:

Click Test connection:

Look for successful connection message:

Review Summary and Click Finish:

Click on Save to save changes to master repository:

## **Part II – Create a Queue**

You will now need to create a Queue in the WebSphere Business Monitor admin console.

Navigate to Resources > JMS > Queues. Select the scope for where you want to create the resource (Support cluster in this case). Click New:

Select WebSphere MQ messaging provider and click OK:

Enter a Name and JNDI name. Remember this information as you will need it later. Also enter the Queue name of the MQ Queue and click OK:

Click on Save to save changes to master repository:

## **Part III – Create an Event Listener**

You will now create an event listener on the servers that will be running the MDB application. In this

case, the Support cluster.

Navigate to Servers > Server Types > WebSphere application servers > server name > Communications > Messaging > Messaging listener service > Listener ports and click New:

Enter the Name, Connection Factory JNDI name (Connection Factory JNDI from Part 1), Destination JNDI name (Queue JNDI from Part 2). You can also change the Initial State to either be Started or Stopped. If Started is elected, this will cause the listener to automatically start up and pull message off the MQ queue if the Support server is restarted. If Stop is selected, this will cause the listener to remain down upon Support server restart and messages will NOT be pulled from the MQ queue. Click OK:

Click Save to save changes to master repository:

Repeat these same steps to create the listener on the other server(s) that are part of your cluster. If you are only pulling message from one MQ queue, then only one of these listeners need to be up and running at a time.

## **Part IV – Deploy and Configure the MDB application**

The last part of this infrastructure configuration requires the setup of an MDB application that will be used to pull messages off of the MQ queue and put them in Business Monitor CEI for event consumption. The Business Monitor product comes with this application. We will simply be modifying the existing application so that we can deploy another version of it that will be specific to our event consumption.

In the Business Monitor admin console, navigate to Applications > Application Types > WebSphere enterprise applications. Select the check box next to `IBM_WBM_EMITTER_SERVICES` and click Export:

Click on the file (ear) and save it on your local machine:

Navigate back to Applications > Application Types > WebSphere enterprise applications and click Install:

Select Choose file and select the ear file you saved on your local machine in the previous step and click Next:

Select Detailed and click Next:

Click Continue if this message appears:

Enter a unique Application name for this app under the Application name section and click Next:

Make sure to select the Support cluster for this application to be deployed onto and click Next:

Click Next:

Click Next:

Click Next:

Enter the name of the Event Listener that you created in Part III in the Listener port field and click Next:

Click Next:

Click Continue:

Click Next:

Provide a unique Context Root name. You cannot accept the default, as the default is already being used but the existing IBM\_WBM\_EMITTER\_SERVICES application that came installed with the product.

Click Next:

Accept the defaults for Step 10 – 16 by clicking Next.

Click Finish on Step 16:

Look for the successful installation of the application and click Save:

After your save your changes, at a minimum restart your Support cluster application servers. You can

restart the whole environment to have a fresh clean restart.

You should now be able to place events onto your MQ queue and Business Monitor will pull those messages off the queue and consume them. You will need to ensure that the Event Listener you created is up and running and also the MDB application is up and running.

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