# Working with MSMQ

## Exercise 1 – Prepare your MSMQ queue

### Step 1

Open Server Manager and go to Features - Message Queuing and select to create a new private queue.

Name the queue “BizTalk”. Continue without selecting it to be transactional.  
*BizTalk can easily handle both transactional and non-transactional queues.*

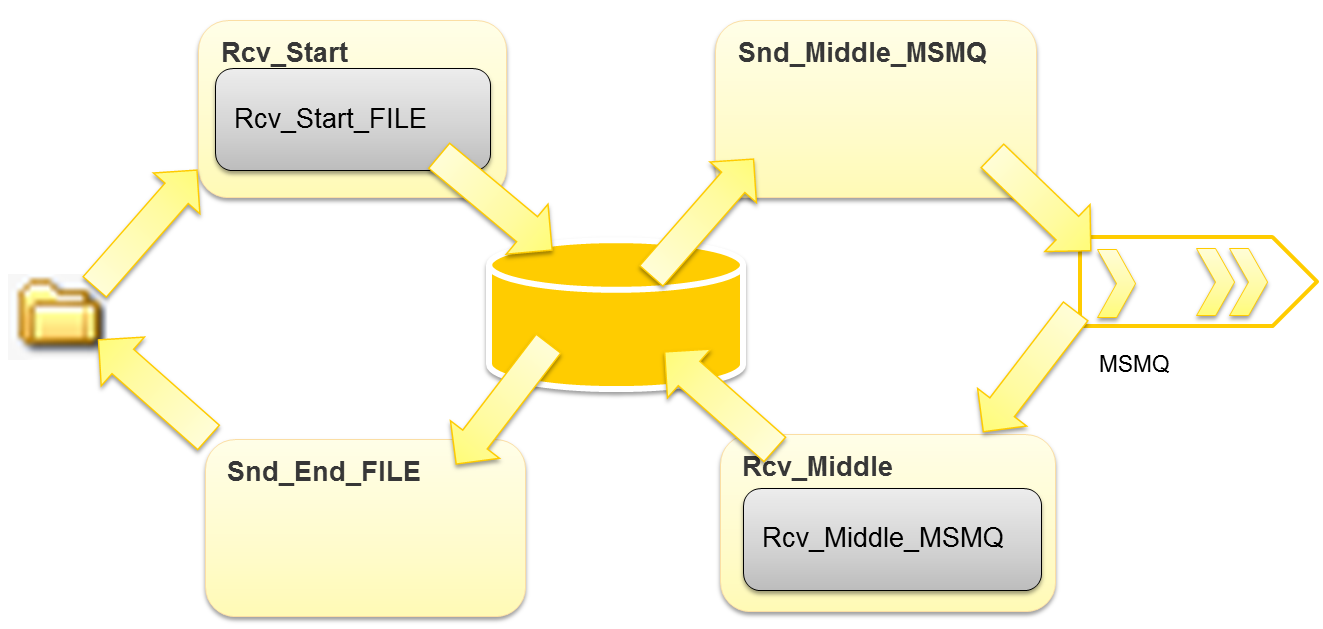
## Exercise 2 – Configure BizTalk Server

### Step 1

Open the Administration Console and create a new BizTalk Application. Name it MSMQLab.  
*You do this by expanding the BizTalk Server 2009 Administration node, expanding the Group Hub node, right clicking the Applications node and selecting New… Application.*

### Step2

We will create 4 ports. 2 receive ports and 2 send ports. The flow of messages will be as below.



Use the following data to configure Rcv\_Start:

* URI: C:\Labs\Work\Lab 7
* File mask: \*Copy\*

Use the following data to configure Snd\_Middle\_MSMQ to messages data to your private biztalk queue:

* URI (Destination Queue): localhost\private$\biztalk
* Username/password: Administrator/pass@word1
* Do not forget to setup a filter. Suggestion: Use BTS.ReceivePortName
* Apply *Development* Best Practices for the Advanced Transport Properties and the Retry Count property. (Set it to 0).

Use the data above to receive data from the same queue using the port Rcv\_Middle.

Use the following data to configure Snd\_End\_FILE

* URI: C:\Labs\Work\Lab 7
* File Name: %MessageID%.txt
* Do not forget to setup a filter. Suggestion: Use BTS.ReceivePortName
* Apply Development Best Practices for the Advanced Transport Properties and the Retry Count property. (Set it to 0).

## Exercise 3 – Start and test the message flow

### Step 1

Start both send ports.

Enable the receive location Rcv\_Start\_FILE.

Do not enable the receive location Rcv\_Middle\_MSMQ at this point.

*Note: It is a best practice to always enable downstream services (send ports and orchestrations, and even downstream receive locations) before enabling the receive location that puts messages into the messagebox for them to process.*

### Step 2

Navigate to the folder c:\Labs\Work\Lab 7. Create any text file, name it (for example) msmq.txt and place some text in it. Copy/Paste it to create a file that triggers the BizTalk receive location Rcv\_Start\_FILE. Wait until BizTalk deletes the file.

Go to Server Manager – Features - Message Queuing – Private Queues. Note that the biztalk queue will now report that is has a message. If you do not see this, refresh the view. If you still do not see it, review the BizTalk Administration Console for suspended messages.



Enable the receive location Rcv\_Middle\_MSMQ.

Refresh the view again and see that the message is gone.

Review the output folder to note that a message with a name similar to {F22C1F58-4FA5-980E-6251ABA21D4F}.txt will have appeared (your actual file name will wary).