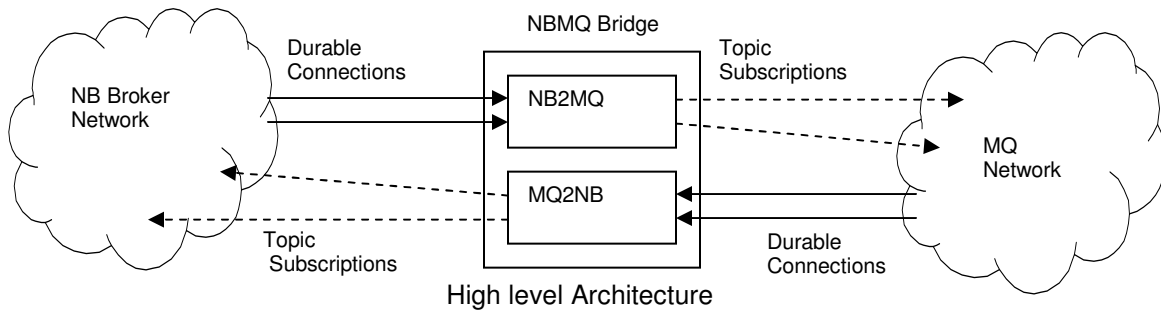


Message Bridge Architecture

Key Features:

Message Bridge provides the connectivity between Naradabrokering (NB) and IBM MQ (MQ) messaging domains.

Configurable to bridge messages from different topics in NB domain to different topics in MQ domain.



The Message Bridge:

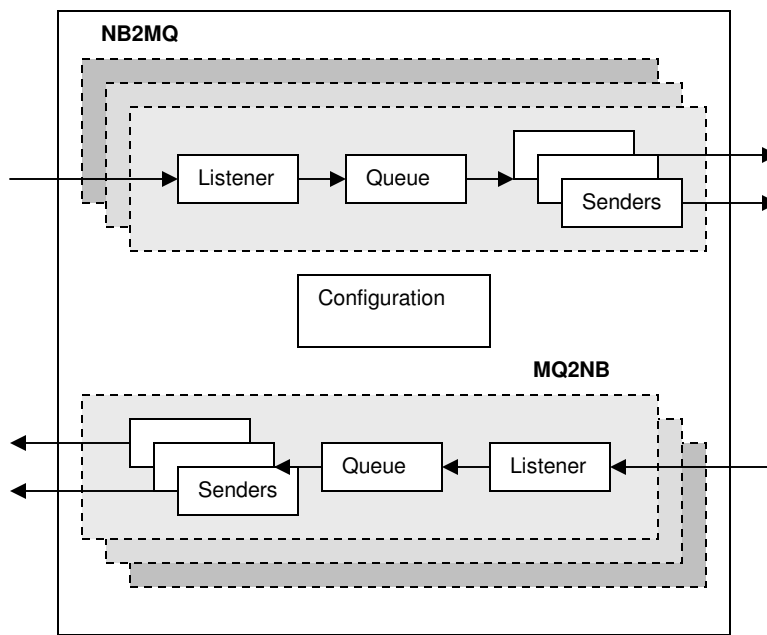
Basic architecture of the message bridge is based on the concepts of Listener, Queues and Senders. For a given direction (e.g. NB to MQ or MQ to NB) there can be several listeners listening to a given set of topics using durable connections.

Received messages are put into message queues specific to each listener

Each queue is configured with set of Senders which keep on monitoring the queue for new messages.

Senders send (or bridge) the messages in a queue to the other messaging domain.

Bridge can be configured to handle multiple topics from both directions.



Architecture of Message Bridge

Configuration:

User can configure the bridge using bridge-config.xml and a sample configuration is as follows.

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<bridgeconfig>
  <nb2mqmapping>
    <nb_transport>niotcp</nb_transport>
    <nb_hostname>127.0.0.1</nb_hostname>
    <nb_portnumber>3045</nb_portnumber>
    <nb_username>jaliya</nb_username>
    <nb_topic>Naradabrokering2IBMMQ</nb_topic>
    <nb_topicid>nbid</nb_topicid>
    <mq_topic>NB2MQTopic</mq_topic>
    <mq_initialctxfactory>
      com.sun.jndi.fscontext.RefFSContextFactory
    </mq_initialctxfactory>
    <mq_jndiurl>file:/C:/JNDI-Directory/pubsub</mq_jndiurl>
    <mq_topicconfactory>NBMQBridgeTCF</mq_topicconfactory>
    <senders>10</senders>
    <sendersleeptime>5</sendersleeptime>
  </nb2mqmapping>

  <mq2nbmapping>
    <nb_transport>niotcp</nb_transport>
    <nb_hostname>127.0.0.1</nb_hostname>
    <nb_portnumber>3045</nb_portnumber>
    <nb_username>jaliya</nb_username>
    <nb_topic>IBMMQ2Naradabrokering</nb_topic>
    <!-- <nb_topicid>myid</nb_topicid> -->
    <mq_topic>MQ2NBTopic</mq_topic>
    <mq_topicid>mqid</mq_topicid>
    <mq_initialctxfactory>
      com.sun.jndi.fscontext.RefFSContextFactory
    </mq_initialctxfactory>
    <mq_jndiurl>file:/C:/JNDI-Directory/pubsub</mq_jndiurl>
    <mq_topicconfactory>NBMQBridgeTCF</mq_topicconfactory>
    <senders>10</senders>
    <sendersleeptime>5</sendersleeptime>
  </mq2nbmapping>
</bridgeconfig>
```