

# servicemix-quartz

## ServiceMix Quartz

The ServiceMix Quartz component is a standard JBI Service Engine able to schedule and trigger jobs using the great [Quartz](#) scheduler.

### Maven Archetype

You can use Maven servicemix-quartz-service-unit archetype to create a Quartz service unit:

```
mvn archetype:create \
  -DarchetypeGroupId=org.apache.servicemix.tooling \
  -DarchetypeArtifactId=servicemix-quartz-service-unit \
  -DarchetypeVersion=2010.01 \
  -DgroupId=your.group.id \
  -DartifactId=your.artifact.id \
  -Dversion=your-service
```

### Endpoint Configuration

The Quartz endpoint can be used to fire message exchanges at a given (recurrent) time.

#### Quartz Cron Trigger Endpoint

```
<quartz:endpoint service="test:service" endpoint="endpoint1" targetService="test:receiver1">
  <quartz:trigger>
    <quartz:cron cronExpression="0/5 * * * * ?" />
  </quartz:trigger>
</quartz:endpoint>
```

#### Quartz Simple Trigger Endpoint

```
<quartz:endpoint service="test:service" endpoint="endpoint2" targetService="test:receiver2">
  <quartz:trigger>
    <quartz:simple repeatCount="0" repeatInterval="1000" />
  </quartz:trigger>
</quartz:endpoint>
```

## Quartz Custom Marshaler

```
<quartz:endpoint service="test:service" endpoint="endpoint3" targetService="test:receiver3">
  <quartz:jobDetail>
    <quartz:jobDetail>
      <quartz:jobDataAsMap>
        <quartz:property key="xml"><![CDATA[
          <hello>world</hello>
        ]]></quartz:property>
      </quartz:jobDataAsMap>
    </quartz:jobDetail>
  </quartz:jobDetail>
<quartz:triggers>
  <quartz:simple repeatCount="0" repeatInterval="1000" />
  <quartz:cron cronExpression="0 * 1 * * ?" />
</quartz:triggers>
<quartz:marshaller>
  <bean class="org.apache.servicemix.quartz.CustomMarshaler" />
</quartz:marshaller>
</quartz:endpoint>
```

The snippet above requires a CustomMarshaler implementation that can get the information from the job data map and add it to the NormalizedMessage.

## Custom marshaller class

```
public class CustomMarshaler extends DefaultQuartzMarshaler {

    public void populateNormalizedMessage(NormalizedMessage message, JobExecutionContext context)
                                                throws JobExecutionException, MessagingException
    {
        super.populateNormalizedMessage(message, context);
        //add your own content to the message here
        message.setContent(new StringSource((String) context.getJobDetail().getJobDataMap().get("xml")));
    }
}
```