Activiti

Activiti

Activiti Activiti TransactionDependentExecutionListener

BPMN XML Java “ ” / ActivitiListeners , ActivitiListener

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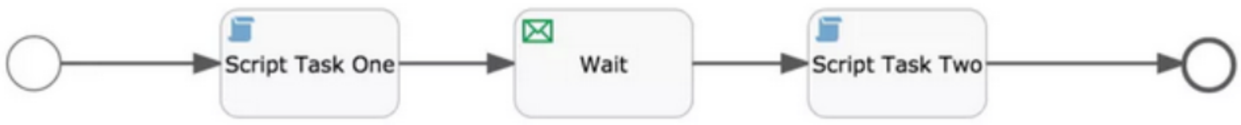

XML

```
 <process id="transaction-dependent-listeners">

     <startEvent id="start">

         <extensionElements>

             <activiti:executionListener delegateExpression="${myActivityLogger}"
event="start" />

         </extensionElements>

     </startEvent>



     <sequenceFlow id="flow1" sourceRef="start" targetRef="script-task-1"/>

     <scriptTask id="script-task-1" name="Script Task One" activiti:async="true"
scriptFormat="groovy">
```

```
        <extensionElements>

            <activiti:executionListener delegateExpression="${myActivityLogger}"
event="start" />

            <activiti:executionListener delegateExpression="${myMessageProducer}"
event="start" onTransaction="committed" />

        </extensionElements>

        <script>

           println 'script task one; start new transaction'

        </script>

    </scriptTask>

    <sequenceFlow id="flow2" sourceRef="script-task-1" targetRef="receive-task-1"/>

    <receiveTask id="receive-task-1" name="Wait">

        <extensionElements>

            <activiti:executionListener delegateExpression="${myActivityLogger}"
event="start" />

        </extensionElements>

    </receiveTask>

    <sequenceFlow id="flow3" sourceRef="receive-task-1" targetRef="script-task-2"/>

    <scriptTask id="script-task-2" name="Script Task Two" activiti:async="true"
scriptFormat="groovy">

        <extensionElements>

            <activiti:executionListener delegateExpression="${myActivityLogger}"
event="start" />
```

```
         </extensionElements>

         <script>

            println 'script task two; start new transaction'

         </script>

     </scriptTask>

     <sequenceFlow id="flow4" sourceRef="script-task-2" targetRef="end"/>

     <endEvent id="end">

         <extensionElements>

             <activiti:executionListener delegateExpression="${myActivityLogger}"
event="start" />

         </extensionElements>

     </endEvent>

 </process>
```

Activiti   ReceiveTask   ACT_RU_EXECUTION

JMS   (   )   ,   ,

JMS

```
/**

 * @author www.shareniu.com

 */

@Component("myMessageProducer")

public class MyMessageProducer implements TransactionDependentExecutionListener {

    private static final Logger logger = LoggerFactory.getLogger(MyMessageProducer.class);

    @Autowired

    private JmsTemplate jmsTemplate;

    public void notify(String processInstanceId, String executionId, FlowElement
currentFlowElement, MapexecutionVariables, MapcustomPropertiesMap) {

        logger.debug("Sending message <{}> to queue", executionId);

        jmsTemplate.convertAndSend("receive_task_signal", executionId);

    }

}
```

```
/**

 * @author www.shareniu.com

 */

@Component

public class MyMessageConsumer {

    private static final Logger logger = LoggerFactory.getLogger(MyMessageConsumer.class);

    @Autowired

    private RuntimeService runtimeService;

    @JmsListener(destination = "receive_task_signal", containerFactory = "myFactory")

    public void receiveMessage(String executionId) {

        logger.debug("Received message: <" + executionId + ">");

        logger.debug("Signaling execution with id: <" + executionId + ">");

        runtimeService.trigger(executionId);

    }

}
```

“ ” “ ” myMessageProducer

```
mvn spring-boot:run
```

```
2017-02-07 15:18:52.229 DEBUG 1243900 --- [cTaskExecutor-1]
o.a.demo.listener.MyActivityLogger       : Current activity id:

script task one; start new transaction

2017-02-07 15:18:52.653 DEBUG 1243900 --- [cTaskExecutor-1]
o.a.demo.listener.MyActivityLogger       : Current activity id:

2017-02-07 15:18:52.657 DEBUG 1243900 --- [cTaskExecutor-1]
o.a.demo.listener.MyMessageProducer      : Sending message <5> to queue

2017-02-07 15:18:52.689 DEBUG 1243900 --- [enerContainer-1]
org.activiti.demo.jms.MyMessageConsumer  : Received message: <5>

2017-02-07 15:18:52.689 DEBUG 1243900 --- [enerContainer-1]
org.activiti.demo.jms.MyMessageConsumer  : Signaling execution with id: <5>

2017-02-07 15:18:52.696 DEBUG 1243900 --- [cTaskExecutor-2]
o.a.demo.listener.MyActivityLogger       : Current activity id:

script task two; start new transaction

2017-02-07 15:18:52.703 DEBUG 1243900 --- [cTaskExecutor-2]
o.a.demo.listener.MyActivityLogger       : Current activity id:
```

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