

# jBPM

## jBPM Component

Available as of Camel 2.16

The **jbpm** component provides integration with Business Process Management (BPM) Suit **jBPM**. It uses kie-remote-client API to interact with jBPM instance over REST. The component supports only producer.

Maven users will need to add the following dependency to their `pom.xml` for this component:

```
<dependency>
  <groupId>org.apache.camel</groupId>
  <artifactId>camel-jbpm</artifactId>
  <version>x.x.x</version><!-- use the same version as your Camel core version -->
</dependency>
```

## URI format

```
jbpm::hostName[:port][/resourceUri][?options]
```

## URI Options

Name	Default Value	Type	Description
operation	startProcess	String	The operation to perform: <b>Process operations:</b> startProcess, abortProcessInstance, signalEvent, getProcessInstance, getProcessInstances <b>Rule operations:</b> fireAllRules, getFactCount, getGlobal, setGlobal <b>Work Item Operations:</b> abortWorkItem, completeWorkItem <b>Task Operations:</b> activateTask, addTask, claimNextAvailableTask, claimTask, completeTask, delegateTask, exitTask, failTask, getAttachment, getContent, getTasksAssignedAsBusinessAdministrator, getTasksAssignedAsPotentialOwnerByStatus, getTaskByWorkItem, getTaskBy, getTaskContent, getTasksByProcessInstance, getTasksByStatusByProcessInstance, getTasksOwned, nominateTask, releaseTask, resumeTask, skipTask, startTask, stopTask, suspendTask
value	null	Object	the value to assign to the global identifier
processId	null	String	the id of the process that should be acted upon
parameters	null	Map<String, Object>	the variables that should be set for various operations
processInstanceId	0	Long	the id of the process instance
eventType	null	String	the type of event to use when signalEvent operation is performed
event	null	String	the data associated with this event when signalEvent operation is performed
maxNumber	null	Integer	the maximum number of rules that should be fired
identifier	null	String	identifier the global identifier
workItemId	0	Long	the id of the work item
taskId	0	Long	the id of the task
userId	null	String	userId to use with task operations
language	null	String	The language to use when filtering user tasks
targetUserId	null	String	The targetUserId used when delegating a task
attachmentId	0	Long	attachmentId to use when retrieving attachments
contentId	0	Long	contentId to use when retrieving attachments

task	null	Task	The task instance to use with task operations
entities	null	List<OrganizationalEntity>	The potentialOwners when nominateTask operation is performed
statuses	null	List<Status>	The list of status to use when filtering tasks

## Message Headers

Name	Default Value	Type	Description
CamelJBPMValue	null	Object	the value to assign to the global identifier
CamelJBPMOperation	PUT	String	The operation to perform. The operation name must be prefixed with CamelJBPMOperation and the name of the operation. See the full list above. It is case insensitive.
CamelJBPMProcessId	null	String	the id of the process that should be acted upon
CamelJBPMProcessInstanceId	0	Long	the id of the process instance
CamelJBPMParameters	null	Map<String, Object>	the variables that should be set for various operations
CamelJBPMEventType	null	String	the type of event to use when signalEvent operation is performed
CamelJBPMEvent	null	String	The type of the received event. Possible values defined here org.infinispan.notifications.cachelistener.event.Event.Type
CamelJBPMMaxNumber	null	Integer	the maximum number of rules that should be fired
CamelJBPMIdentifier	null	long	identifier the global identifier
CamelJBPMWorkItemId	0	Long	the id of the work item
CamelJBPMTaskId	0	Long	the id of the task
CamelJBPMTask	null	Task	The task instance to use with task operations
CamelJBPMUserId	null	String	userId to use with task operations
CamelJBPMTargetUserId	null	String	The targetUserId used when delegating a task
CamelJBPMLanguage	null	String	The language to use when filtering user tasks
CamelJBPMAttachmentId	0	Long	attachId to use when retrieving attachments
CamelJBPMContentId	0	Long	contentId to use when retrieving attachments
CamelJBPMEntityList	null	List<OrganizationalEntity>	The potentialOwners when nominateTask operation is performed
CamelJBPMStatusList	null	List<Status>	The list of status to use when filtering tasks

## Example

Below is an example route that starts a business process with id project1.integration-test and deploymentId org.kie.example:project1:1.0.0-SNAPSHOT

```
from("direct:start")
    .setHeader(JBPMConstants.PROCESS_ID, constant("project1.integration-test"))
    .to("jbpm:http://localhost:8080/business-central?userName=bpmsAdmin&password=pa$word1"
    + "&deploymentId=org.kie.example:project1:1.0.0-SNAPSHOT");
```

## See Also

- [Configuring Camel](#)
- [Component](#)
- [Endpoint](#)

- [Getting Started](#)