Introduction

Soffid Business Processes use JBoss JBPM engine. You can find the original JBPM documentation here.

In order to develop a new business process addon you need Eclipse Java EE IDE for Web Developers and three plugins installed on it:

- JBPM plugin. You can find it on http://fr.sourceforge.jp/projects/sfnet_jbpm/downloads/jBPM%20Process%20Designer/jbpm-jpdl-designer-3.1.7/jbpm-jpdl-designer-site-3.1.7.zip/ and you can install it from **Help/Install New Software/Add** and select the file you have downloaded with the **Archive** button.
- ZK Studio. Follow this instructions in order to install http://books.zkoss.org/wiki/ZK_Studio_Essentials/Installation#Install_ZK_Studio.
- maven plugin (m2e-Maven Integration for Eclipse). Go to Help/Install New Software/Work with: "All Available Sites" and select the pluguin.

The business process addon can be build using the com.soffid.tools:maven-par-plugin addon.

They follow the JBPM conventions for .par files:

- **/processdefinition.xml** contains the business process definition that you define.
- **/processimage.jpg** contains a bitmap representation of the definition you have created.
- **/gpd.xml** contains the position of business process elements on processimage.jpb bitmap.
- **/classes directory** contains the java compiled classes that support the business process that you implement.
- **/ui.xml** file describes some aspects not covered by processdefinition.xml, just like permissions, user interface and process versioning and upgrade.
- **/ui directory** contains the user interface (ZK) components that are needed to render the workflow tasks.

Examples

/processdefinition.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<process-definition xmlns="urn:jbpm.org:jpdl-3.3"
   name="Recertification process">
```

```
    <description>
        Process to execute recertification tasks.
    </description>

    <start-state name="Start">
        <description>
            Starts a recertification process
        </description>
        <transition to="Select groups"></transition>
        <event type="before-signal">
            <action name="Create recertification process"
class="com.soffid.iam.recertification.bpm.CreateRecertificationProcessHandler"></action>
        </event>
    </start-state>

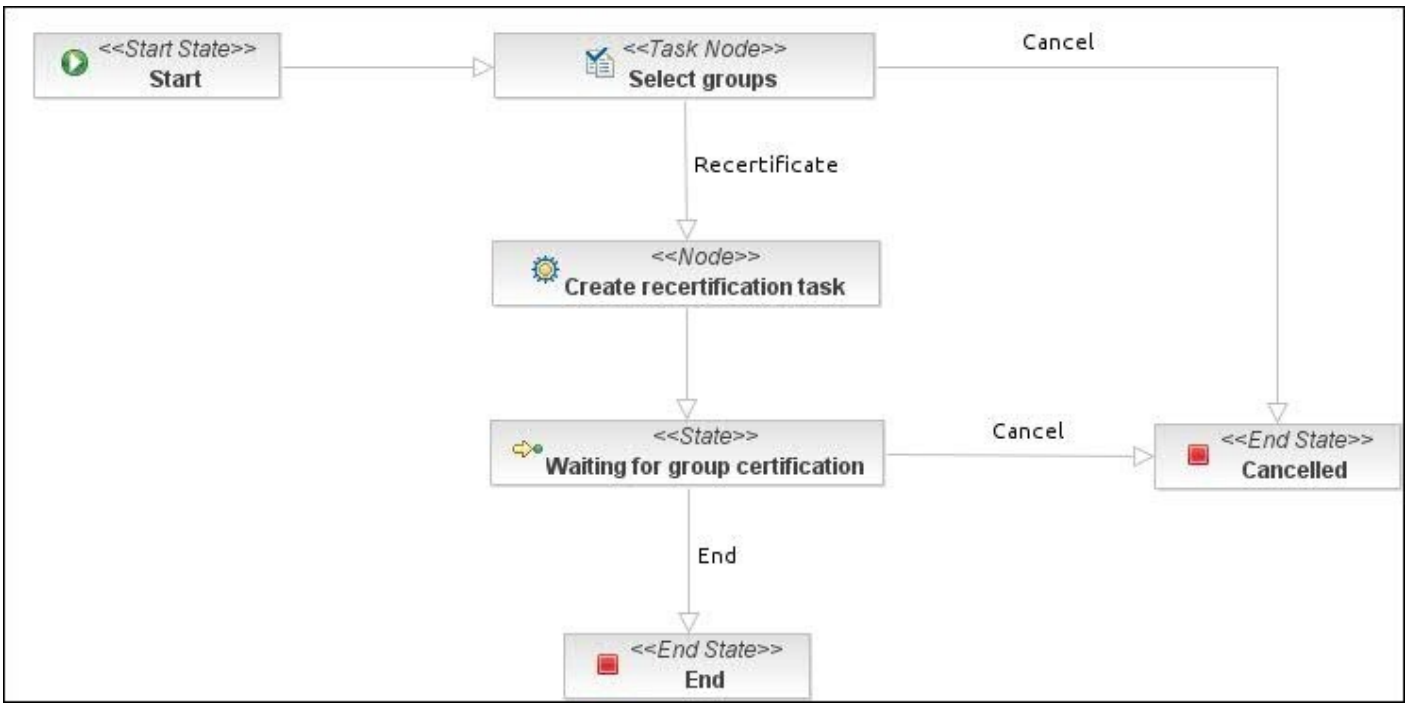
    <task-node name="Select groups">
        <description>
            Selects one or more business units.
            ...
        </description>
        <task name="Select business units">
            <assignment pooled-actors="SEU_ADMIN, SEU_ADMINISTRADOR, SOFFID_ADMIN"></assignment>
        </task>
        <transition to="Cancelled" name="Cancel"></transition>
        <transition to="Create recertification task" name="Recertificate"></transition>
    </task-node>
    <node name="Create recertification task">
        <action name="Create recertification info"
class="com.soffid.iam.recertification.bpm.CreateRecertificationTaskHandler"></action>
        <transition to="Waiting for group certification"></transition>
    </node>
    <state name="Waiting for group certification" async="true">
        <transition to="Cancelled" name="Cancel"></transition>
        <transition to="End" name="End"></transition>
    </state>

    <end-state name="Cancelled"></end-state>
    <end-state name="End"></end-state>

    <event type="process-end">
```

```
        <action class="com.soffid.iam.recertification.bpm.ProcessFinishedHandler"></action>
    </event>
</process-definition>
```

/processimage.jpg



/gpd.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<root-container name="Recertification process" width="743" height="369">
  <node name="Start" x="16" y="14" width="132" height="36">
    <edge>
      <label x="5" y="-10"/>
    </edge>
  </node>
  <node name="Select groups" x="260" y="14" width="203" height="36">
    <edge>
      <label x="-135" y="-21"/>
      <bendpoint w1="314" h1="0" w2="-1" h2="-207"/>
    </edge>
    <edge>
      <label x="5" y="-10"/>
    </edge>
  </node>
  <node name="Create recertification task" x="259" y="124" width="207" height="36">
```

```
    <edge>
      <label x="5" y="-10"/>
    </edge>
  </node>
  <node name="Waiting for group certification" x="258" y="219" width="210" height="36">
    <edge>
      <label x="-14" y="-20"/>
    </edge>
    <edge>
      <label x="5" y="-10"/>
    </edge>
  </node>
  <node name="Cancelled" x="610" y="221" width="132" height="36"/>
  <node name="End" x="297" y="332" width="132" height="36"/>
</root-container>
```

/classes directory

Some additional files must be included.

/ui.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<process>
    <tag>${pom.version}</tag>
    <roles>
        <initiator>
            <role name="SEU_ADMIN" />
            <role name="SOFFID_ADMIN" />
        </initiator>
        <supervisor>
            <role name="SEU_ADMIN" />
            <role name="SOFFID_ADMIN" />
        </supervisor>
        <observer>
            <role name="SEU_ADMIN" />
            <role name="SOFFID_ADMIN" />
        </observer>
    </roles>
    <task name="Select business units">
        <file path="ui/recertificateBUform.zul" />
```

```
    </task>

    <upgrade>
        <process>
            <tag>${project.version}</tag>
        </process>
    </upgrade>
</process>
```

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