

1 WS-BPEL code for the Box Unloading example

```
<process name="BoxFlow">
...
<apf:contextualOneOf name="BoxUnloading">
  <case name="notDamaged">
    <condition expressionLanguage="...">not(b.damaged)</condition>
    <sequence>
      <apf:abstractTask name="UnloadMe">
        <apf:refinement>
          <scope>
            <sequence>
              <apf:contextEvent entity="box" event="PickedUp" variable="pickInfo">
                ...
              </apf:contextEvent>
              ...
            </sequence>
            <apf:contextHandlers>
              <apf:onContextEvent type="event-blocking">
                <apf:contextCondition expressionLanguage="...">
                  not(wa.free(stgLoc))
                </apf:contextCondition>
                <sequence>
                  <invoke operation="stagingUnavail" partnerLink="Warehouse-PL".../>
                  <apf:contextEvent entity="box" event="NewUnloadingLoc"...>
                    ...
                  </apf:contextEvent>
                </sequence>
              </apf:onContextEvent>
            </apf:contextHandlers>
          </scope>
        </apf:refinement>
      </apf:abstractTask>
      <apf:abstractTask name="StoreMe">
        ...
      </apf:abstractTask>
    </sequence>
  <apf:onContextChange>
    <sequence>
      <apf:abstractTask name="CancelUnloading">
        ....
      </apf:abstractTask>
      <apf:abstractTask name="CancelStoring">
        ....
      </apf:abstractTask>
    </sequence>
  </apf:onContextChange>
</case>
```

```

<case name="Damaged">
<condition expressionLanguage="...">b.damaged</condition>
<sequence>
  <apf:abstractTask name="BringtoDamagedArea">
    ...
  </apf:abstractTask>
  <apf:abstractTask name="EvaluateDamage">
    ...
  </apf:abstractTask>
  <if>
    <condition>repairable</condition>
    <apf:abstractTask name="HandleDamagedBox">
      ...
    </apf:abstractTask>
  <else>
    <invoke operation="reportDamage" partnerLink="Warehouse-PL"../>
    <invoke operation="reorderDamagedStock" partnerLink="Warehouse-PL"../>
  </else>
</if>
</sequence>
<apf:onContextChange>
  <sequence>
    <apf:abstractTask name="BringtoUnloadingArea">
      ...
    </apf:abstractTask>
    <assign name="UpdateBoxPosition">
      ...
    </assign>
  </sequence>
</apf:onContextChange>
</case>
</apf:contextualOneOf>
...
</process>

```