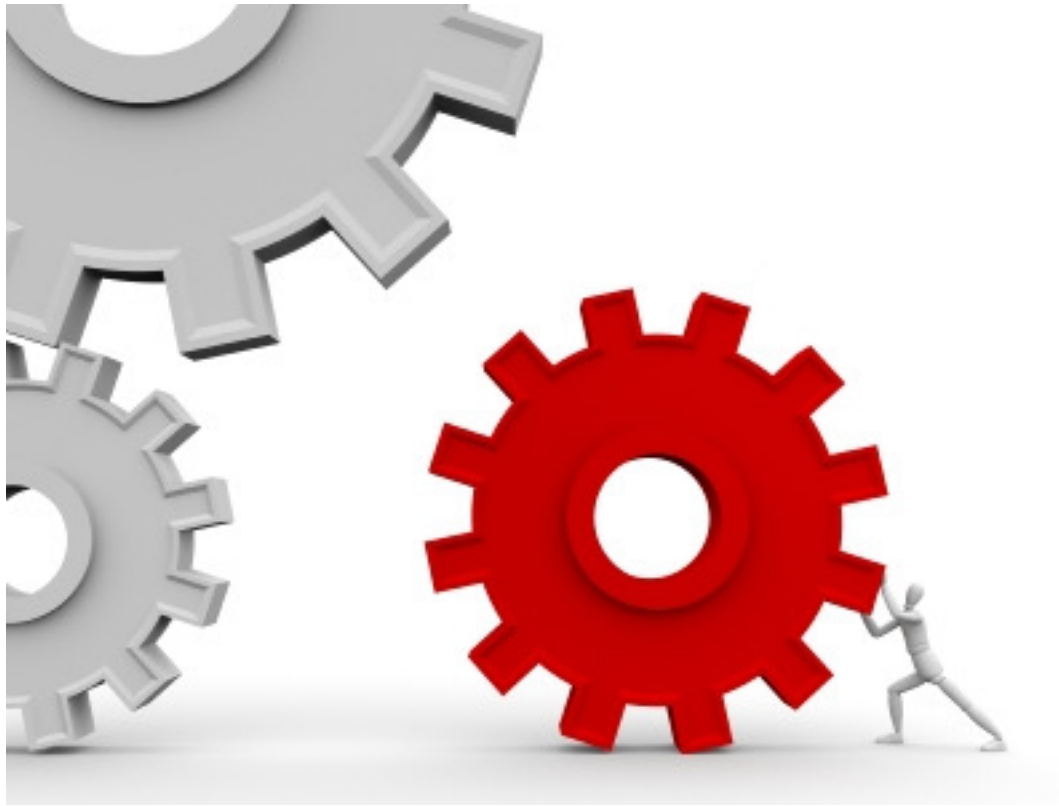




camunda
The Business Process Company

Next generation open source BPM
JBoss jBPM 4

Java Forum Stuttgart
02.07.2009

bernd.ruecker@camunda.com

Guten Morgen ☺

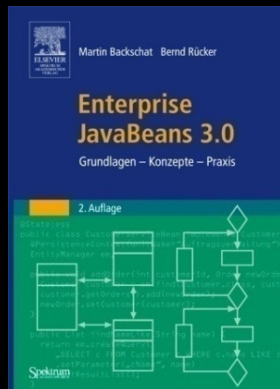


Berater, Trainer, Coach
Softwareentwickler
Committer bei jBPM

Blog: www.bpm-guide.de

Bernd Rücker

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camunda services GmbH

Ganzheitliches BPM

Beratung

Seminare

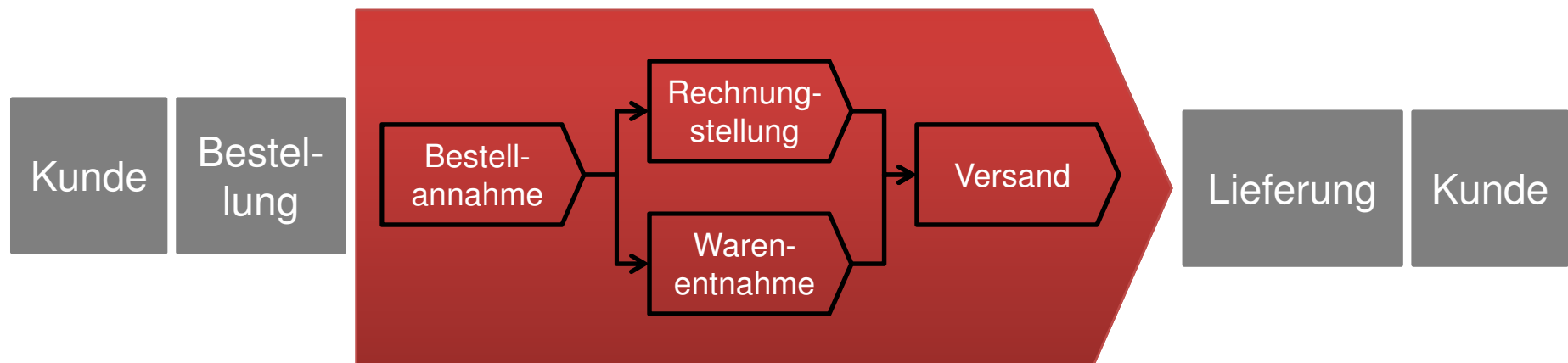
Process Hosting

Standort: Berlin / Stuttgart
Mitarbeiter: 6

Prozessbeispiel: Designer- Taschen



Was ist ein Geschäftsprozess?



Wie setze ich
das bloß
technisch um?



Möglichkeit 1: Java-Entwicklung

Probleme Geschäftsprozesse

- Lang laufend
- Wartezustände
- Timeouts & Eskalation

Nachteile

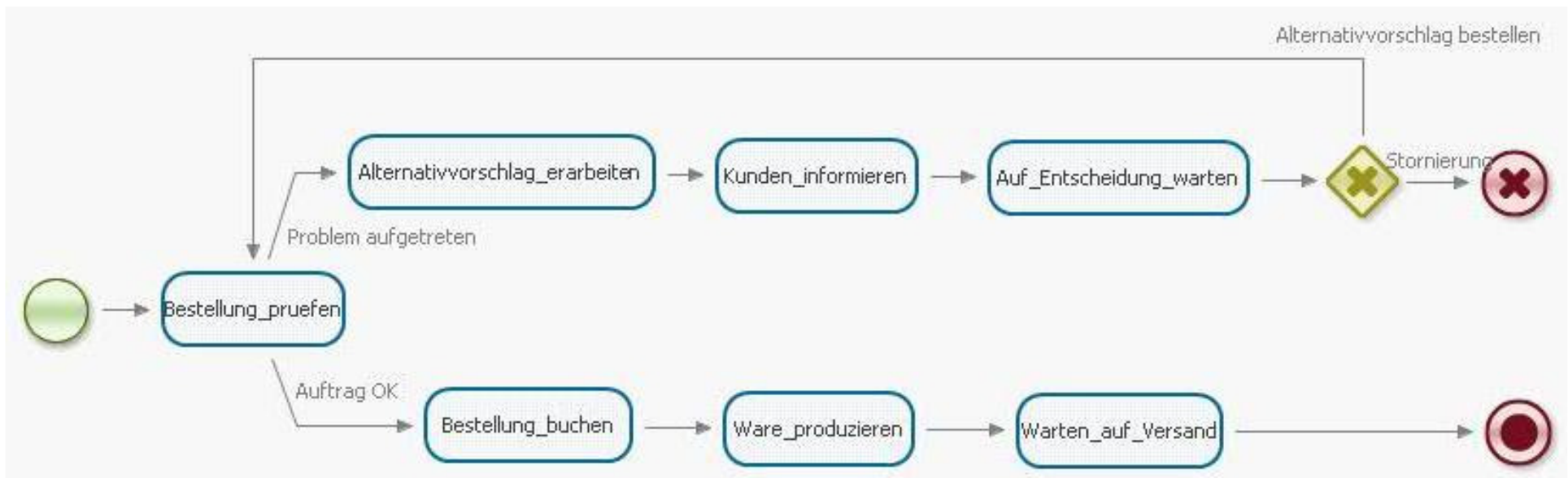
- Zu viel Arbeit!
- Prozess unsichtbar

Business
Process
Engine!



Open Source (LGPL)
POJO + Hibernate
„Library“
Version 4.0 (10.07.09)

Der Prozess (Workflow)



Der Prozess (Workflow)

Business Process Modeling Notation
(BPMN 2.0)

user task

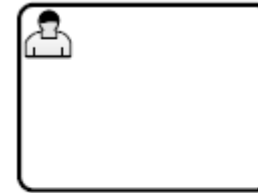
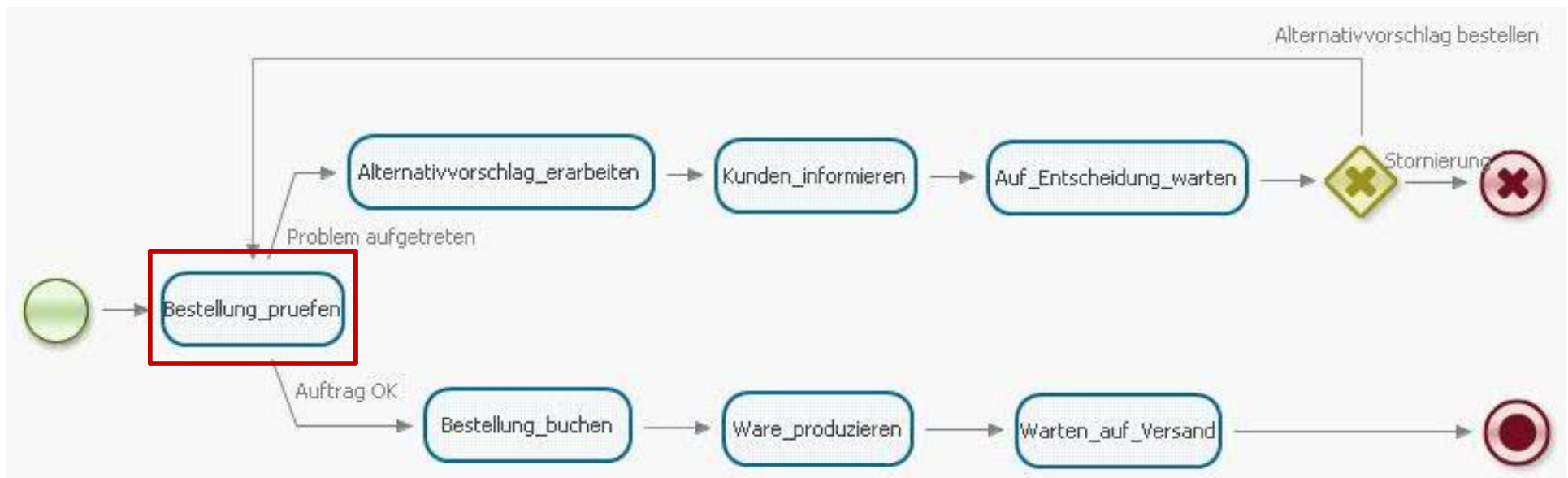


Figure 10-15 – A User Task Object

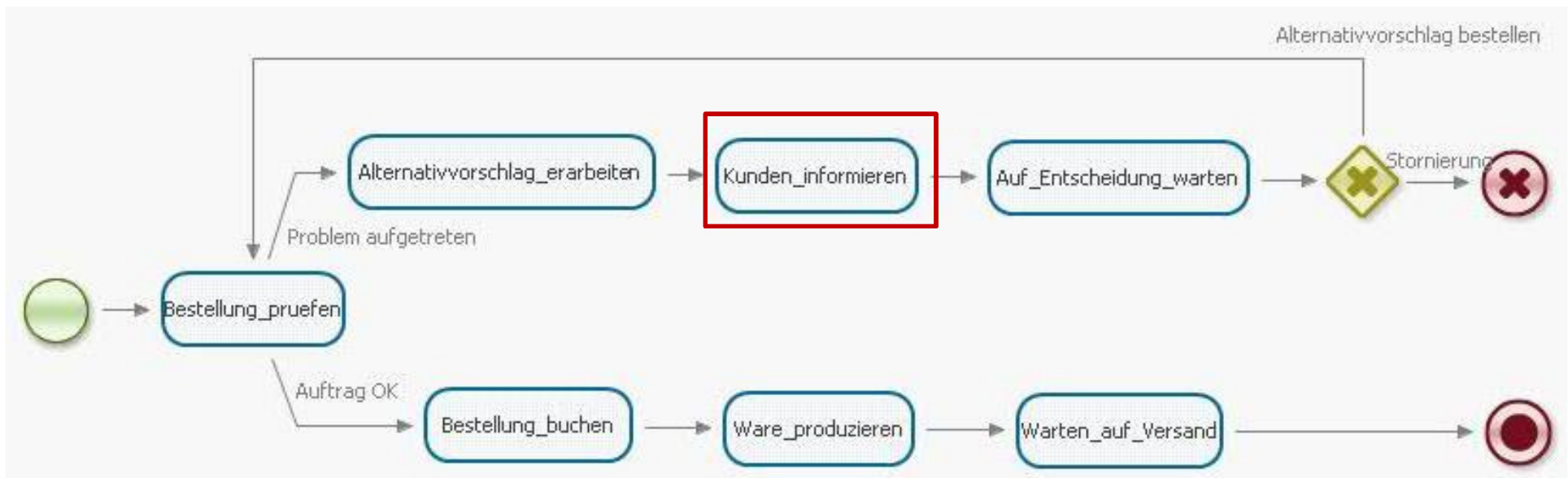


Der Prozess (Workflow)

java



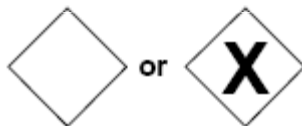
Figure 10-11 – A Service Task Object



Der Prozess (Workflow)

gateway = decision

Exclusive



Event-Based



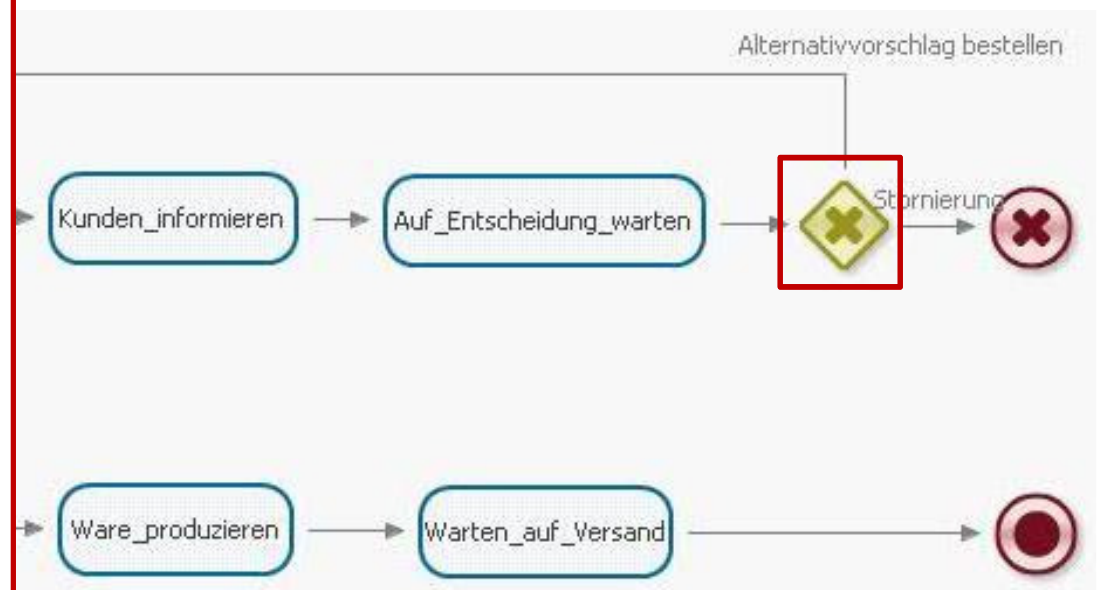
Inclusive



Complex



Parallel

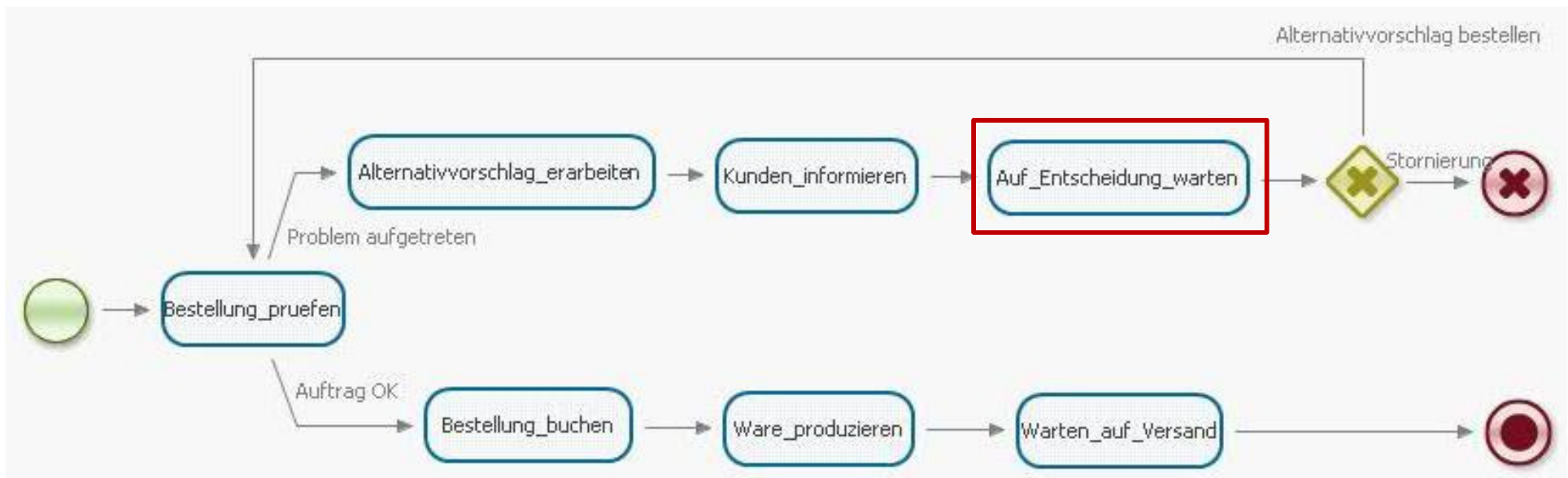


Der Prozess (Workflow)

wait state !=
task



Figure 10-14 – A Receive Task Object

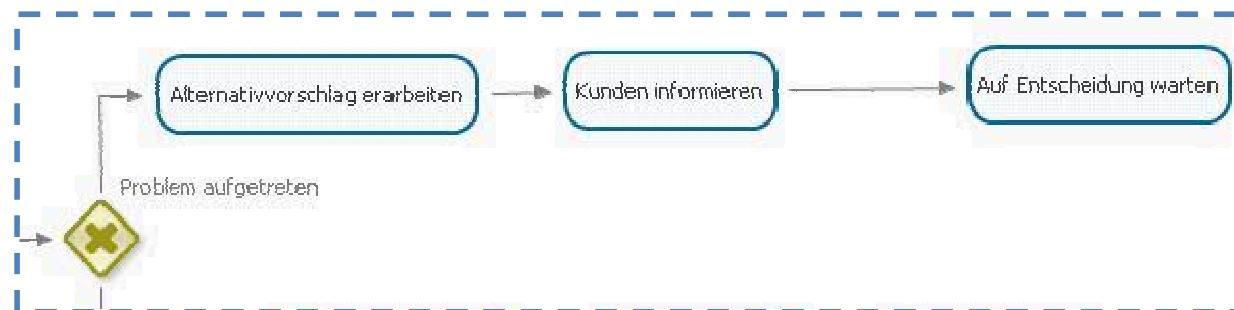
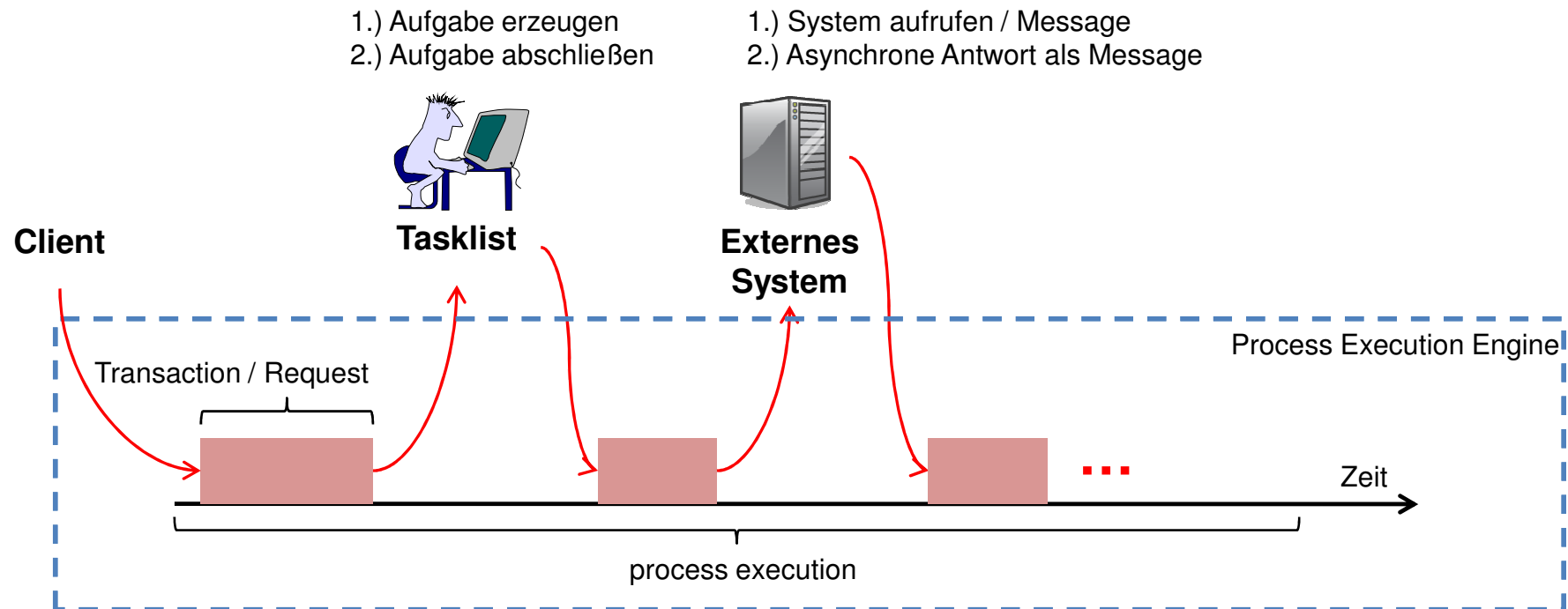


Demo

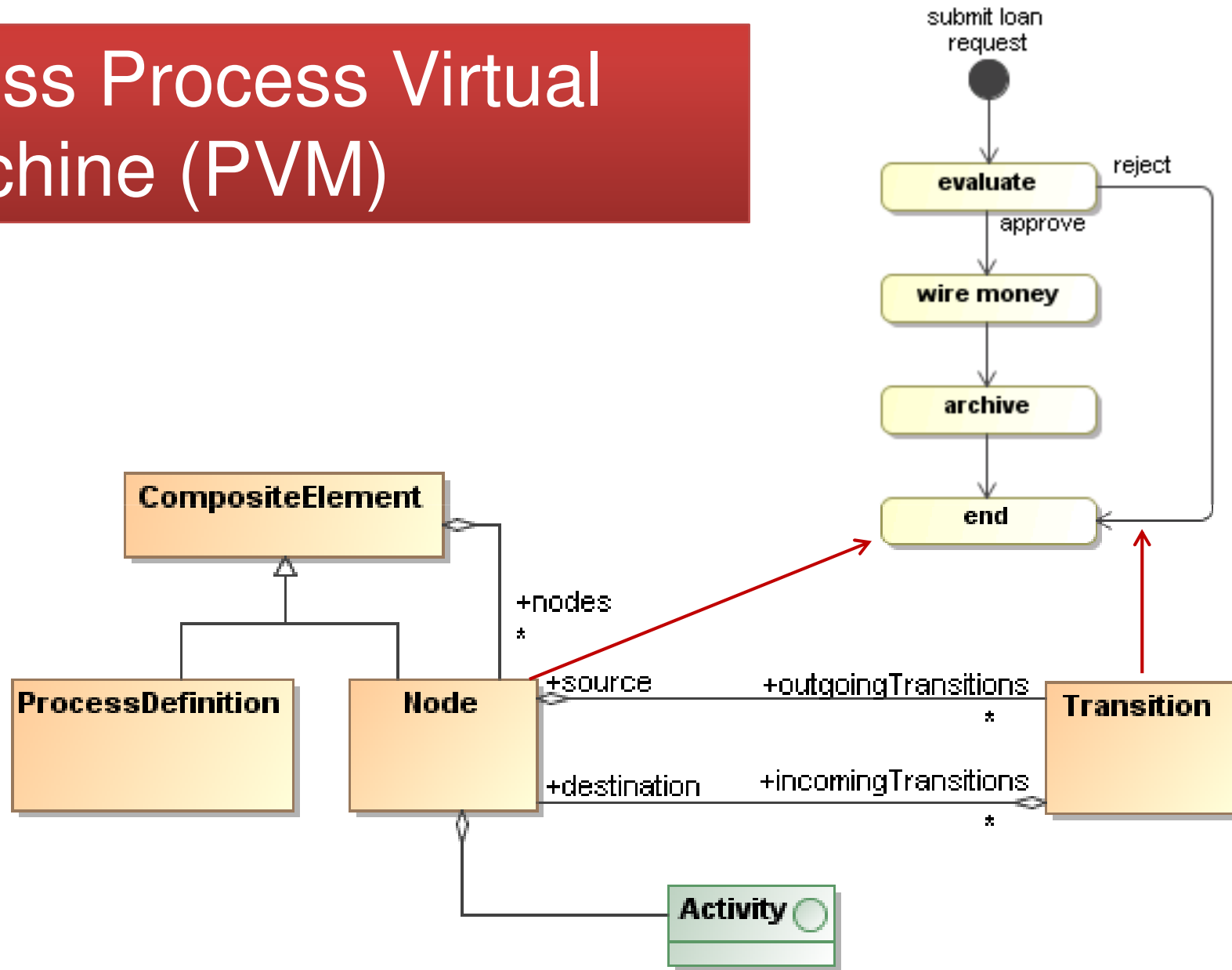


Process Execution

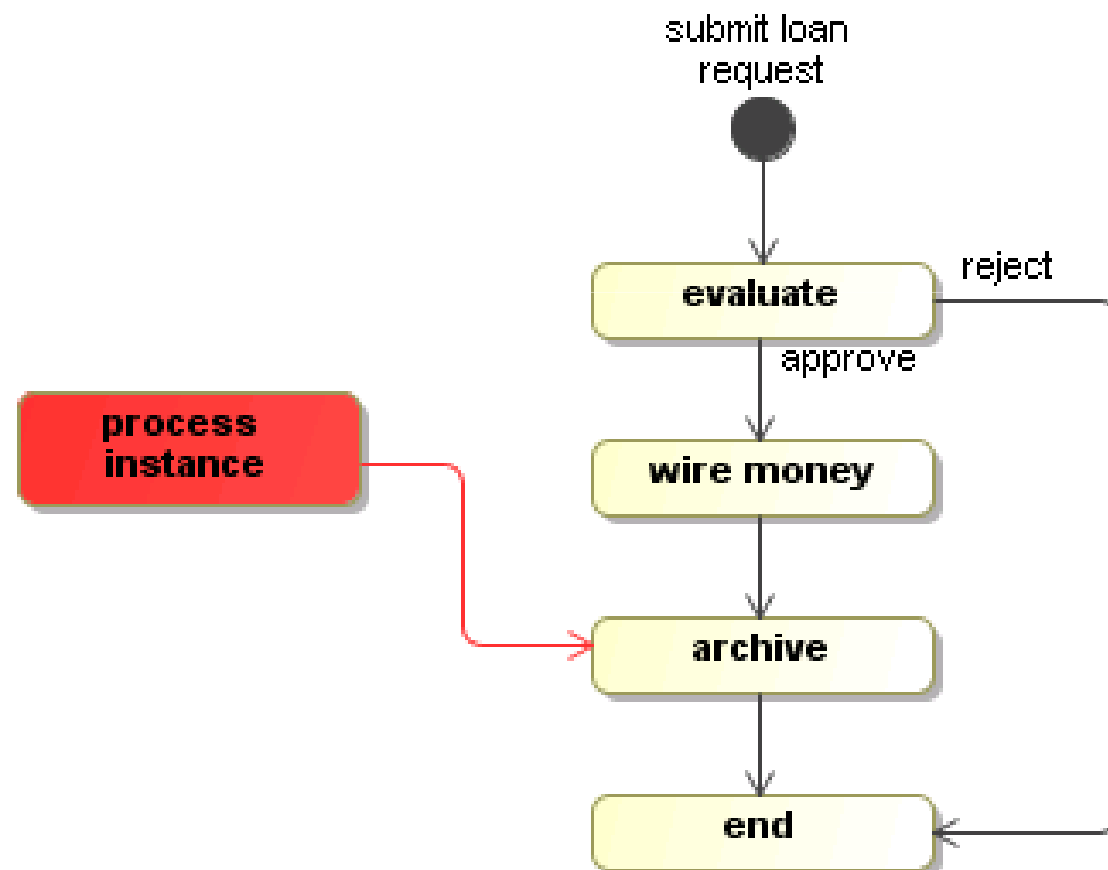
Wie funktioniert das?



JBoss Process Virtual Machine (PVM)



Eine Prozessinstanz

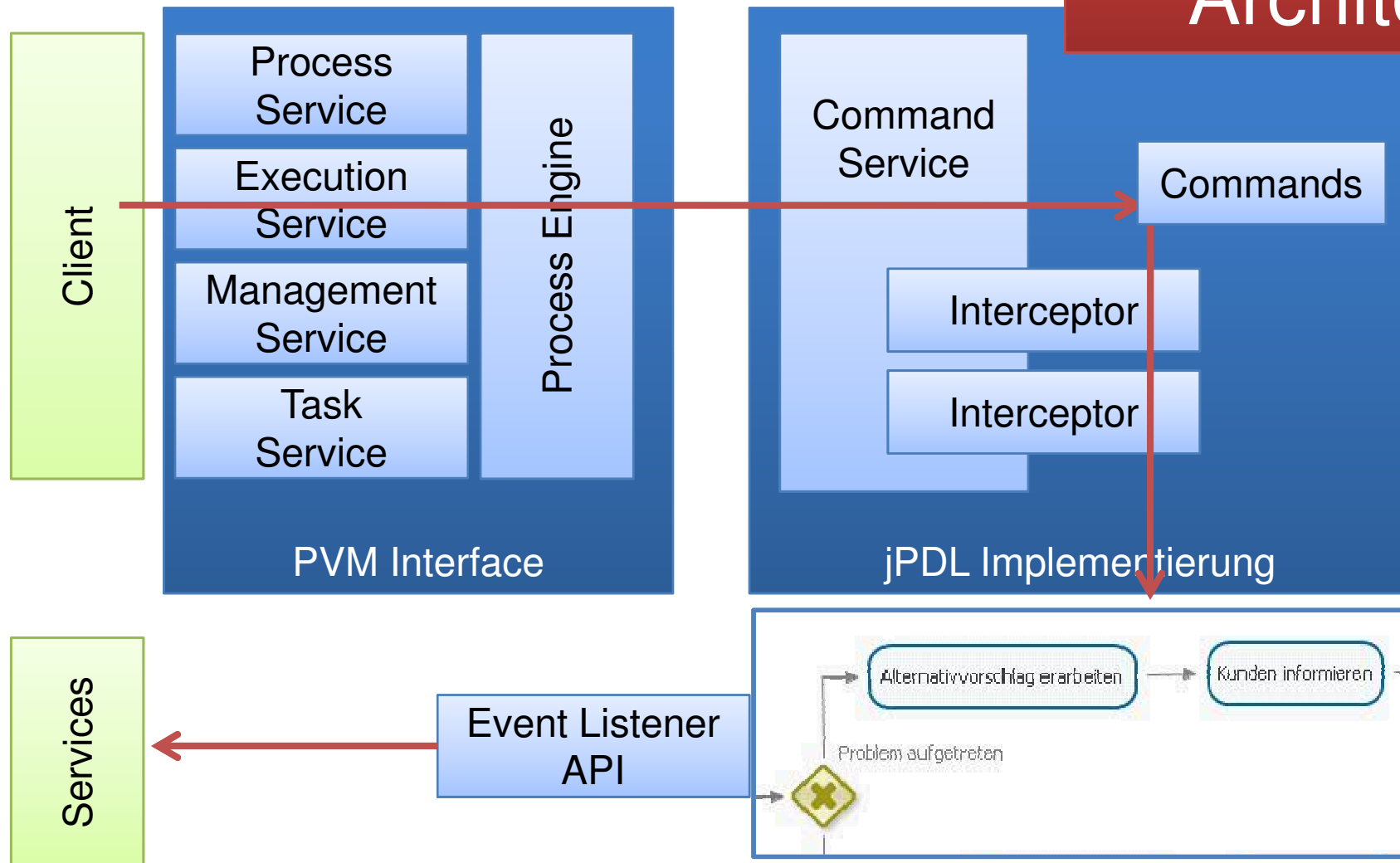


Die Hüllen fallen
gelassen...



APIs & Architektur

Lokal oder Remote
Sync oder Async
JTA oder nicht



```

<process name="Bestellung" xmlns="http://jbpm.org/4.0/jpdl">

  <start name="start" g="18,150,48,48">
    <transition to="Bestellung pruefen"/>
  </start>

  <task candidate-groups="Lager" name="Bestellung_pruefen"
    g="191,149,109,52">
    <transition name="Problem aufgetreten"
      to="Alternativvorschlag_erarbeiten,"
      g="267,103:-3,27"/>
    <transition name="Auftrag OK" to="Bestellung_buchen"
      g="268,236:0,-25"/>
  </task>

  <java name="Kunden informieren"
    class="com.camunda.training.jbpm.service.MockService"
    method="informCustomer" g="493,75,119,52">
    <arg><object expr="#{order.customer}"/></arg>
    <arg><object expr="#{problem}"/></arg>
    <transition to="Auf Entscheidung warten"/>
  </java>

```

jPDL
Quellcode

```

...

<decision name="Stornierung?" g="804,84,48,48">
  <transition name="Alternativvorschlag bestellen"
    to="Bestellung_pruefen"
    g="828,43;245,43:247,-19">
    <condition expr="#{orderChanged}"/>
  </transition>
  <transition name="Stornierung" to="cancel" g="-26,-18"/>
</decision>

<state name="Auf Entscheidung warten" g="695,72,144,52" >
  <transition to="Stornierung?"/>
</state>

...
<end name="end" g="906,212,48,48" />
<end-cancel name="cancel" g="905,152,48,48"/>
</process>

```

jPDL
Quellcode

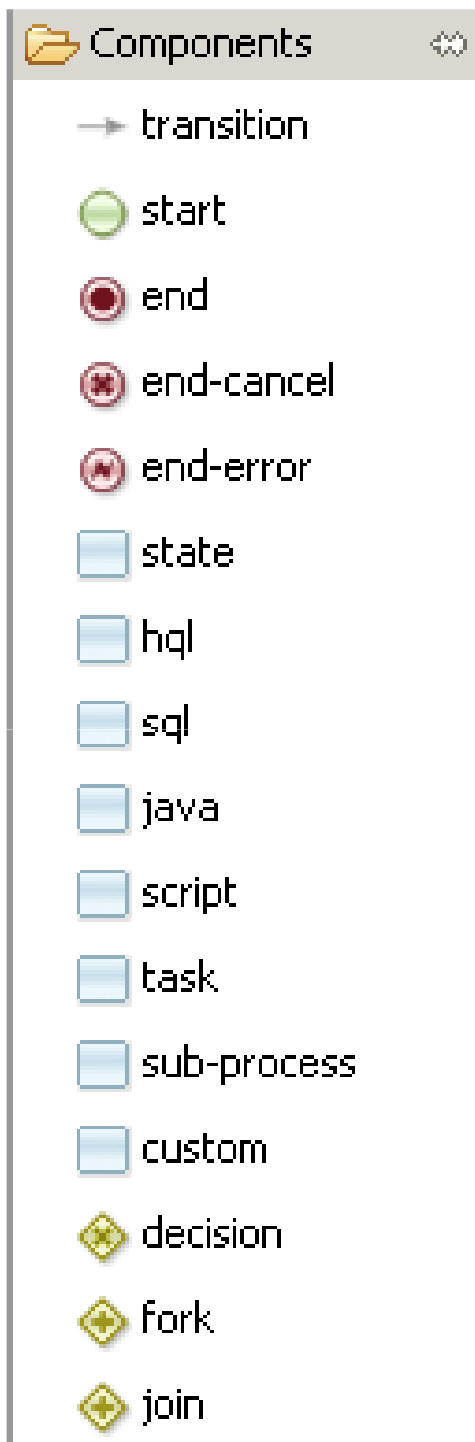
Und ActionHandler?



```
<state name="wait" >
  <on event="start">
    <event-listener
      class="org.jbpm.examples.eventlistener.LogListener"/>
    </on>
    <transition to="end">
      <event-listener
        class="org.jbpm.examples.eventlistener.LogListener"/>
      </transition>
    </state>
```

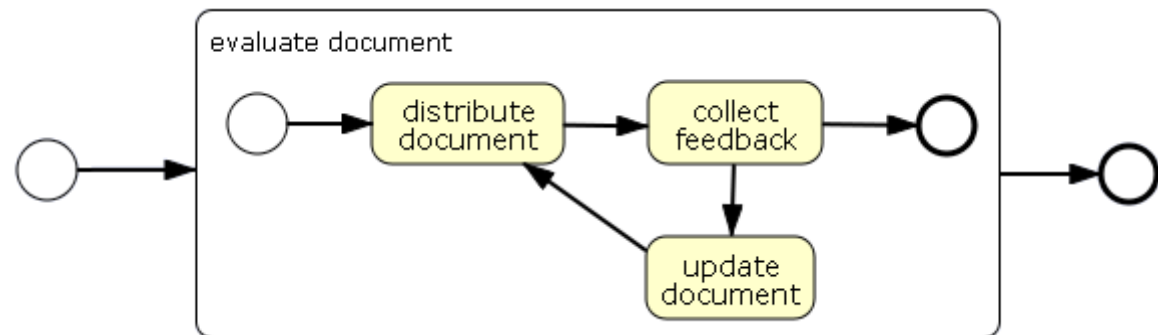
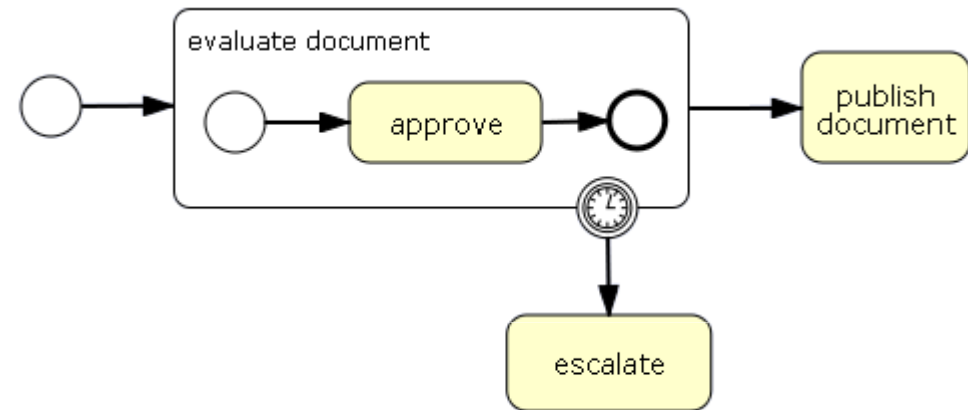
```
public class LogListener implements EventListener {
  public void notify(EventListenerExecution execution) {
    execution.getVariable("logs");
    ...
    execution.setVariable("logs", logs);
  }
}
```





Möglichkeiten & Features

Möglichkeiten & Features



jbpmm und die BPMN-Spezifikation

„Why can't we be friends?“

5.2.2.2. state choice

In this second example with states, we'll show how you can use a `state` can be used to feed in an external choice of the path to take.

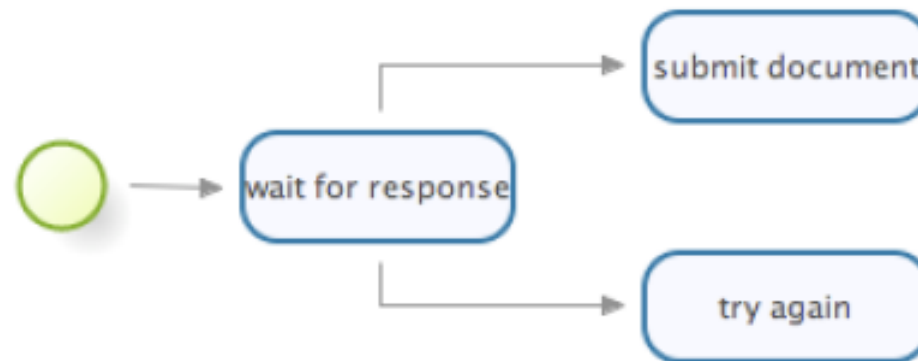
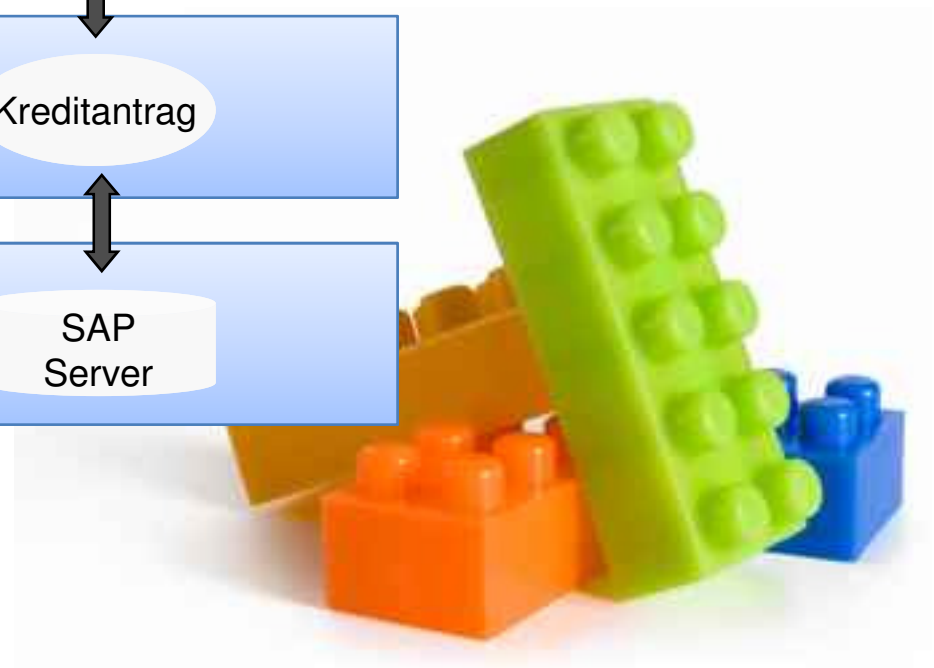
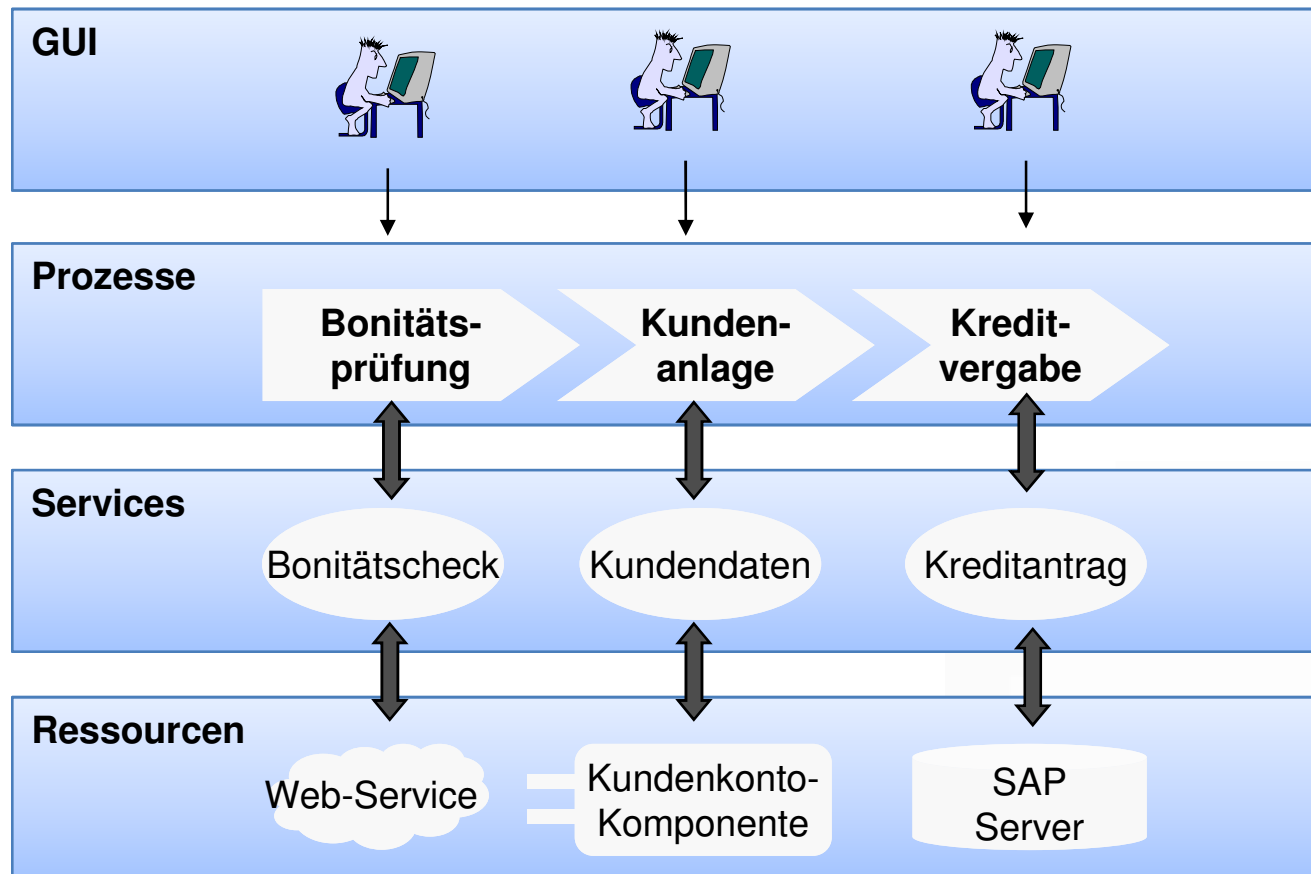
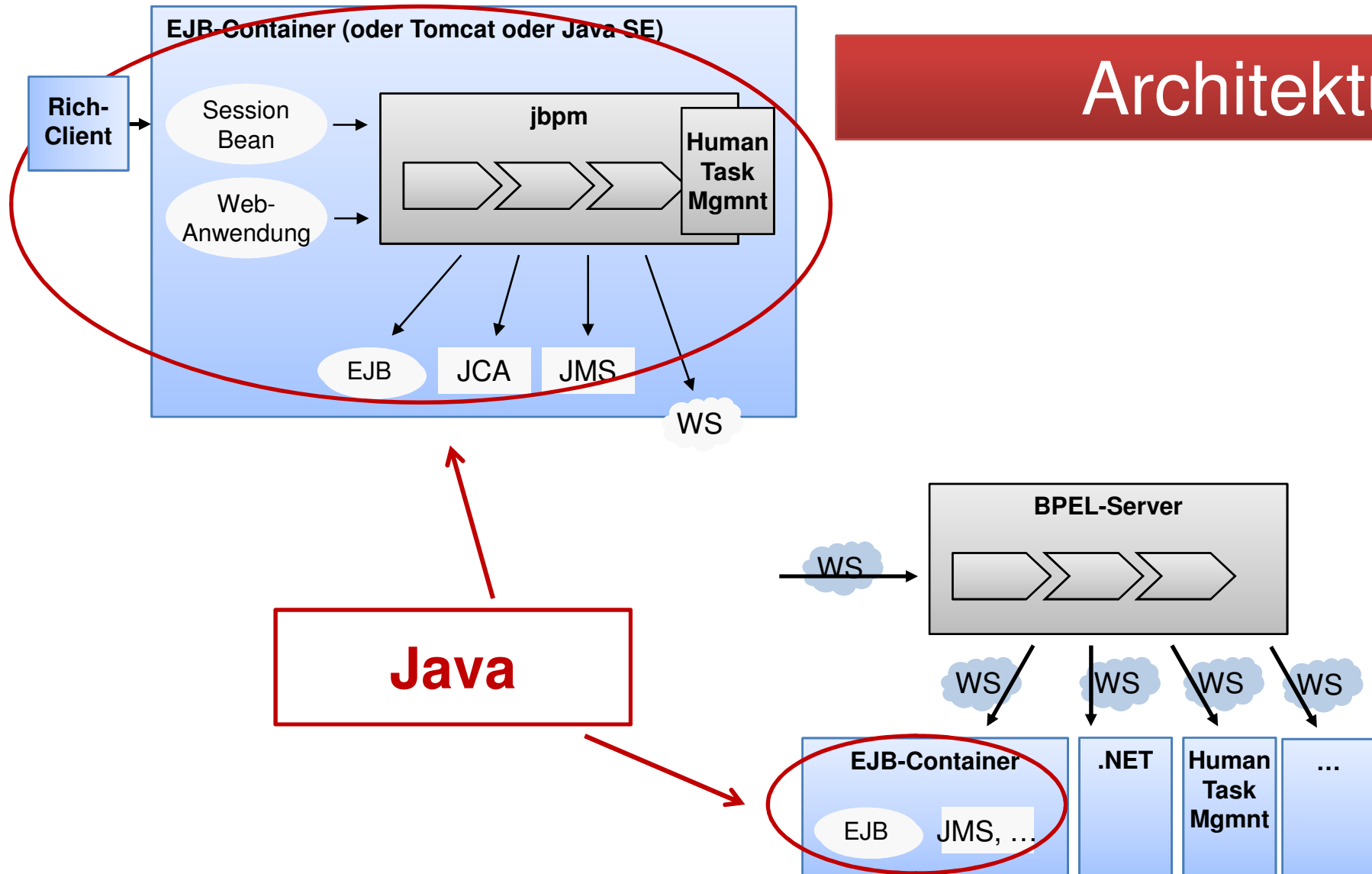


Figure 5.2. A choice between state

BPM & SOA – Blueprint & Vision



Architektur



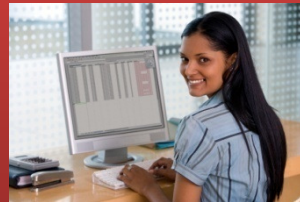
BPM aus IT-Perspektive

Fachliche
Analyse,
Modellierung,
Dokumentation
&
Kommunikation

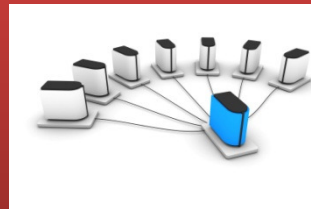


Prozess-
Beschreibung

Human
Workflow



Integration
& EAI

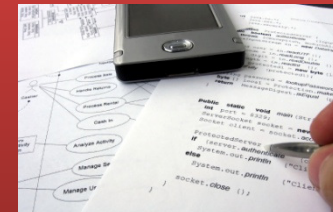


Prozess-
Automatisierung

GUI-Steuerung
Pageflow



Anwendungs-
entwicklung



Software-
Entwicklung

jbpm 3 vs. jbpm 4

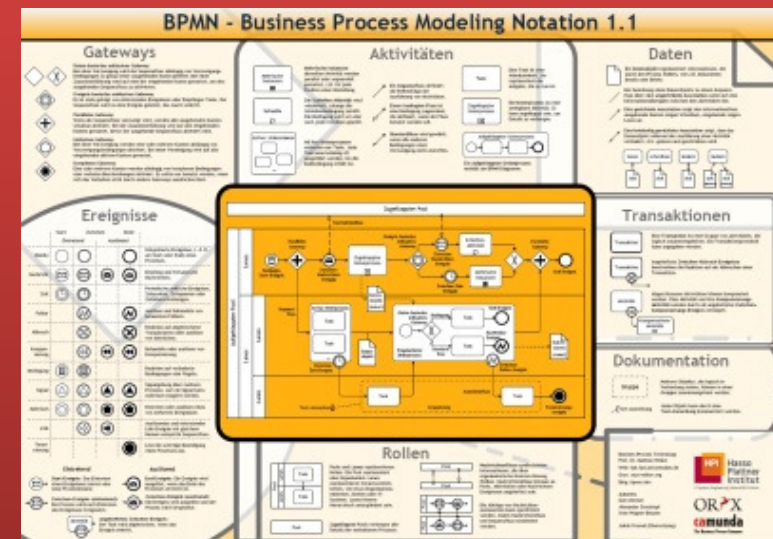
Process Virtual Machine



Saubere Architektur



BPMN



Und was nehme
ich im Projekt?





FEUER IST EIN UNKALKULIERBARES
RISIKO. AUF SO EINEN FORTSCHRITT
KÖNNEN WIR VERZICHTEN!

Doch selber
bauen?

Quelle: Zitty, Berlin
siehe www.bpm-guide.de

Und das
Besondere
an jbp^m?



www.jboss.org/jbossjbpm/



Und jetzt?

JavaMagazin



www.bpm-guide.de



Versionsverwirrung

- Aktuell: 3.2.6 & 4.0
- Unsupported community release: 3.3.x
- Roadmap: 01.09. → 4.1, 01.11. → 4.2



camunda
The Business Process Company

Fragen & Antworten

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+49 711 3278645

