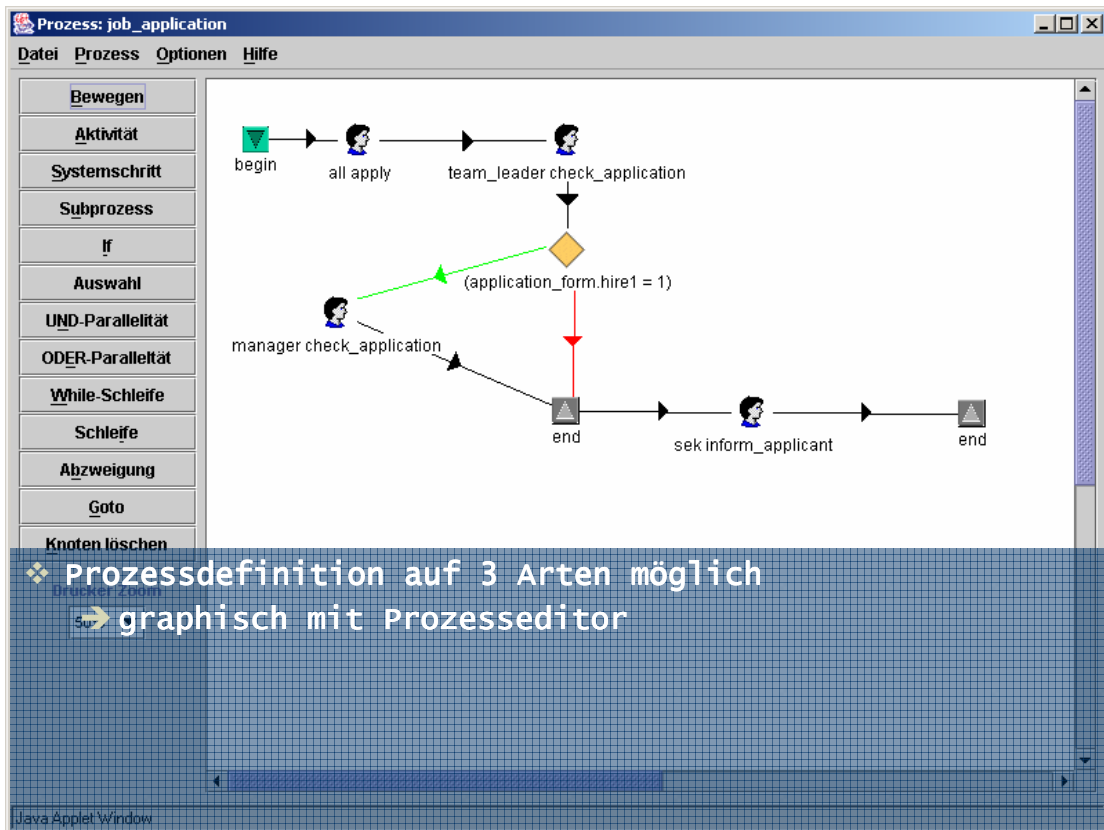
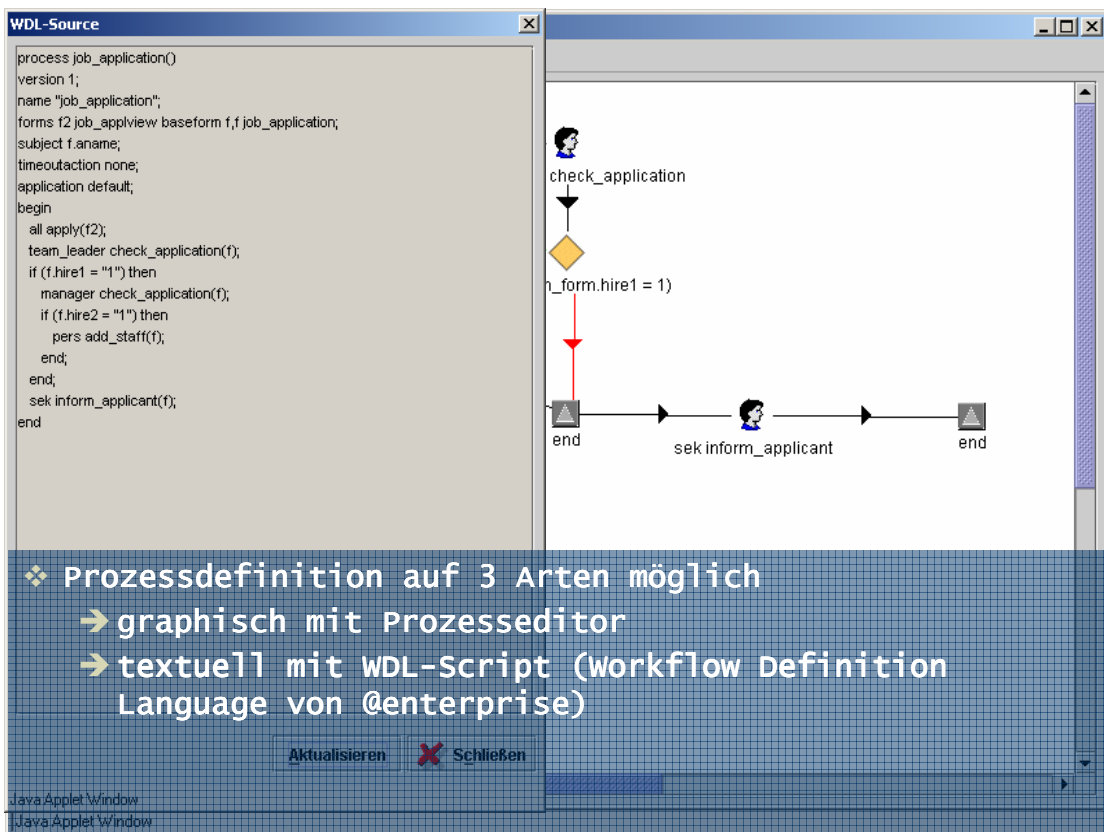




❖ Prozessdefinition auf 3 Arten möglich
→ graphisch mit Prozesseditor



❖ Prozessdefinition auf 3 Arten möglich
→ graphisch mit Prozesseditor
→ textuell mit WDL-Script (Workflow Definition Language von @enterprise)

WDL-Source

```

process job_application()
version 1;
name "job_application";
forms f2 job_applview basefor
subject f.aname;
timeoutaction none;
application default;
begin
all apply(f2);
team_leader check_applicati
if (f.hire1 = "1") then
manager check_application
if (f.hire2 = "1") then
pers add_staff(f);
end;
end;
sek inform_applicant(f);
end

```

```

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE process (View Source for full doctype...)
- <process id="job_application" version="2" name="job_application" subject="f.aname" application="default"
x="35" y="43" xend="554" yend="242" xmlns:xwdl="http://www.groiss.com">
- <forms>
- <formdecl id="application_form" typ="job_application" />
- <formdecl id="f" typ="job_application" />
- <formdecl id="f2" typ="job_applview" baseform="f" />
- </forms>
- <timing timeoutaction="none" />
- <activity id="apply" x="110" y="44">
- <agent string="all" />
- <form name="application_form" />
- </activity>
- <activity id="check_application" x="261" y="44">
- <agent string="team_leader" />
- <form name="application_form" />
- </activity>
- <if condition="(application_form.hire1 = 1)" x="261" y="123" xend="260" yend="240">
- <then>
- <activity id="check_application" x="94" y="169">
- <agent string="manager" />
- <form name="application_form" />
- </activity>
- </then>
- </if>
- <activity id="inform_applicant" skipable="true" x="395" y="241">
- <agent string="sek" />
- <form name="application_form" />
- </activity>
- </process>

```

❖ Prozessdefinition auf 3 Arten möglich

- graphisch mit Prozesseditor
- textuell mit WDL-Script (Workflow Definition Language von @enterprise)
- textuell mit XWDL-Script (XML-Version der WDL)

WDL-Source

```

process job_application()
version 1;
name "job_application";
forms f2 job_applview basefor
subject f.aname;
timeoutaction none;
application default;
begin
all apply(f2);
team_leader check_applicati
if (f.hire1 = "1") then
manager check_application
if (f.hire2 = "1") then
pers add_staff(f);
end;
end;
sek inform_applicant(f);
end

```

```

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE process (View Source for full doctype...)
- <process id="job_application" version="2" name="job_application" subject="f.aname" application="default"
x="35" y="43" xend="554" yend="242" xmlns:xwdl="http://www.groiss.com">
- <forms>
- <formdecl id="application_form" typ="job_application" />
- <formdecl id="f" typ="job_application" />
- <formdecl id="f2" typ="job_applview" baseform="f" />
- </forms>
- <timing timeoutaction="none" />
- <activity id="apply" x="110" y="44">
- <agent string="all" />
- <form name="application_form" />
- </activity>
- <activity id="check_application" x="261" y="44">
- <agent string="team_leader" />
- <form name="application_form" />
- </activity>
- <if condition="(application_form.hire1 = 1)" x="261" y="123" xend="260" yend="240">
- <then>
- <activity id="check_application" x="94" y="169">
- <agent string="manager" />
- <form name="application_form" />
- </activity>
- </then>
- </if>
- <activity id="inform_applicant" skipable="true" x="395" y="241">
- <agent string="sek" />
- <form name="application_form" />
- </activity>
- </process>

```

❖ Alle Arten sind gleich mächtig und gegeneinander austauschbar

- Prozess
 - mit WDL-script definieren
 - in das System laden
 - mit Prozesseditor verändern
 - XWDL-Script des Prozesses exportieren und anschließend weiterbearbeiten
 - danach XWDL-Script laden
 - im Prozesseditor weiterbearbeiten

```

WDL-Source
process job_application()
version 1;
name "job_application";
forms f2 job_applview baseform f,f job_application;
subject f.aname;
timeoutaction none;
application default;
begin
  all apply(f2);
  team_leader check_application(f);
  if (f.hire1 = "1") then
    manager check_application(f);
    if (f.hire2 = "1") then
      pers add_staff(f);
    end;
  end;
end;
sek inform_applicant(f);
end
  
```

- ❖ WDL (Workflow Definition Language) ist die Prozessbeschreibungssprache von @enterprise
- ❖ programmiersprachenähnlicher Charakter
- ❖ ermöglicht die Definition von Prozessen
- ❖ ist leicht und schnell erlernbar

Aktualisieren X Schließen

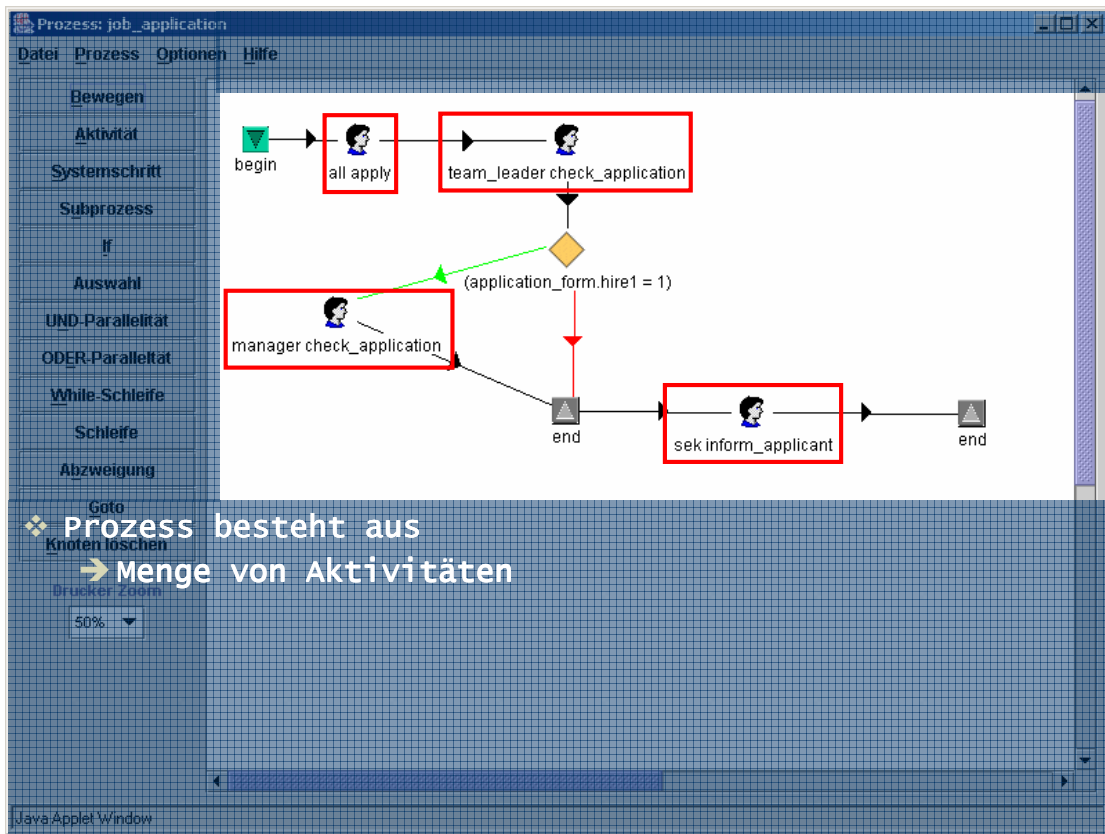
Java Applet Window

Alle Einträge Laden Erstellen Ändern Script Aktiv Zugriff Relink Historie Löschen

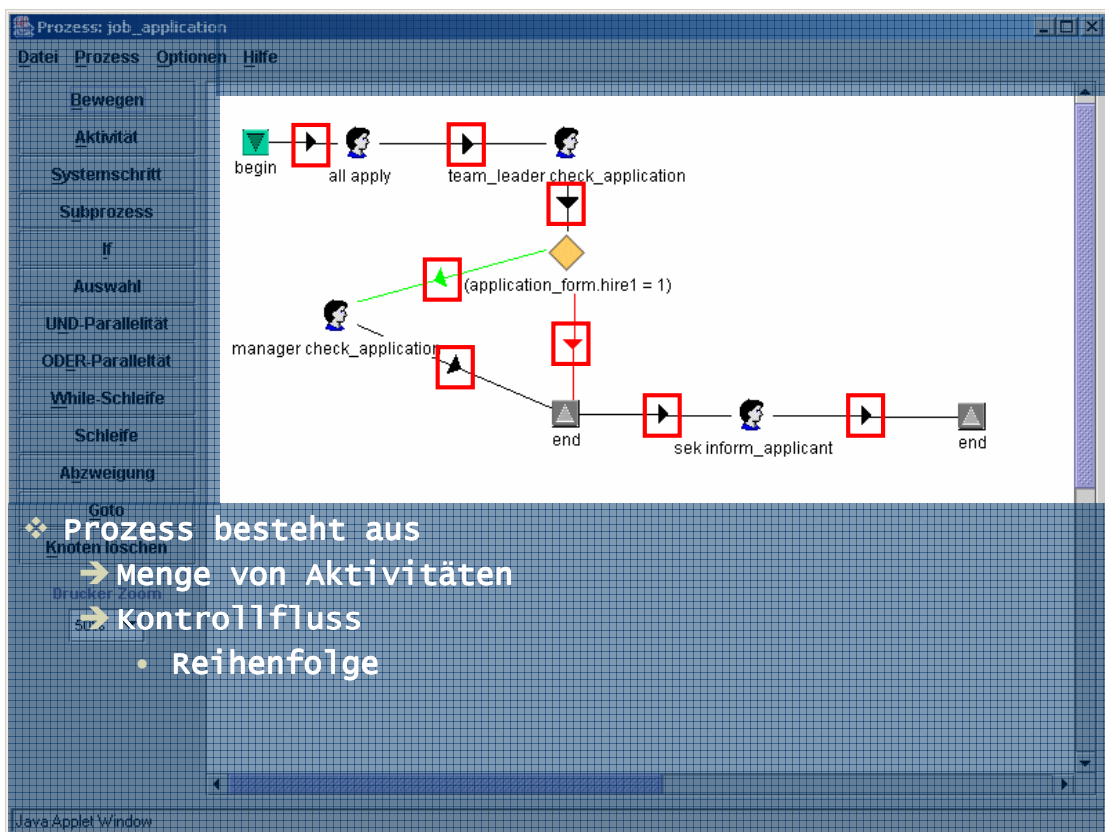
```

<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE process [View Source for full doctype...]>
<process id="job_application" version="2" name="job_application" subject="f.aname" application="default"
  x="35" y="43" xend="554" yend="242" xmlns:xwdl="http://www.groiss.com">
  <forms>
    <formdecl id="application_form" typ="job_application" />
    <formdecl id="f" typ="job_application" />
    <formdecl id="f2" typ="job_applview" baseform="f" />
  </forms>
  <timing timeoutaction="none" />
  <activity id="apply" x="110" y="44">
    <agent string="all" />
    <form name="application_form" />
  </activity>
  <activity id="check_application" x="261" y="44">
    <agent string="team_leader" />
    <form name="application_form" />
  </activity>
  <if condition="(application_form.hire1 = 1)" x="261" y="123" xend="260" yend="240">
    <then>
      <activity id="check_application" x="94" y="169">
        <agent string="manager" />
        <form name="application_form" />
      </activity>
    </then>
  </if>
  <activity id="inform_applicant" skipable="true" x="395" y="241">
    <agent string="sek" />
    <form name="application_form" />
  </activity>
</process>
  
```

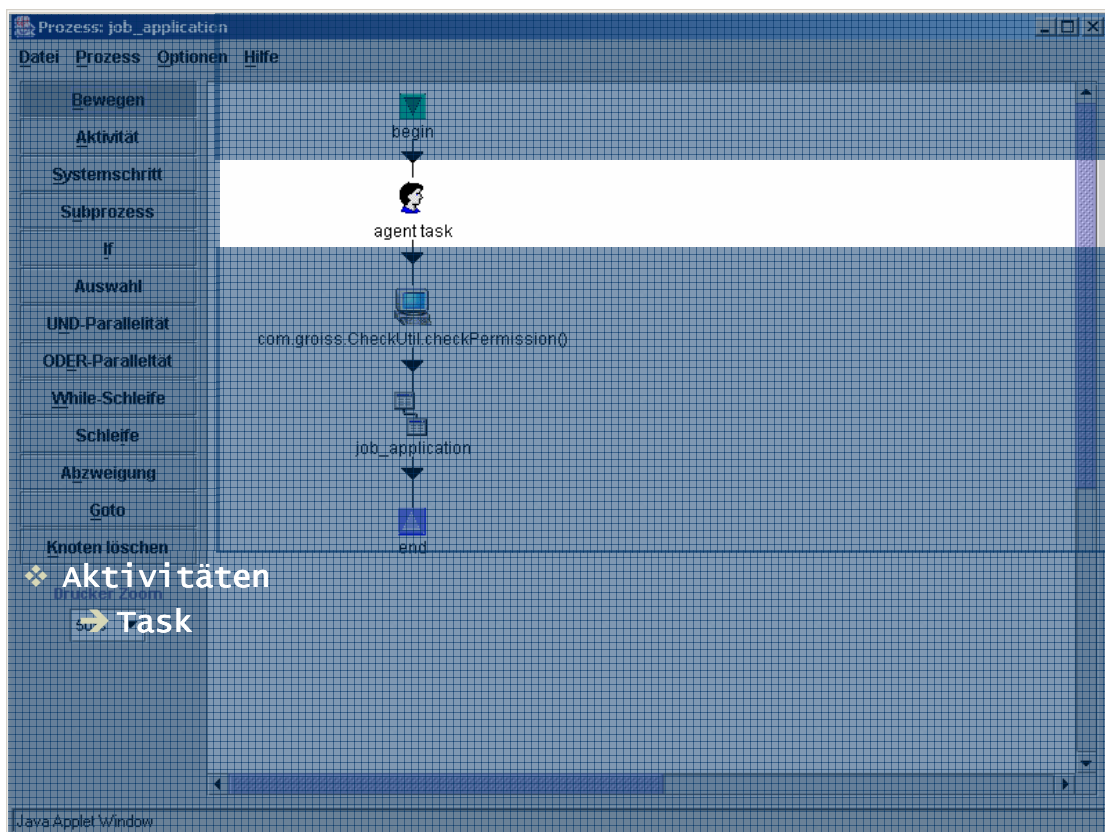
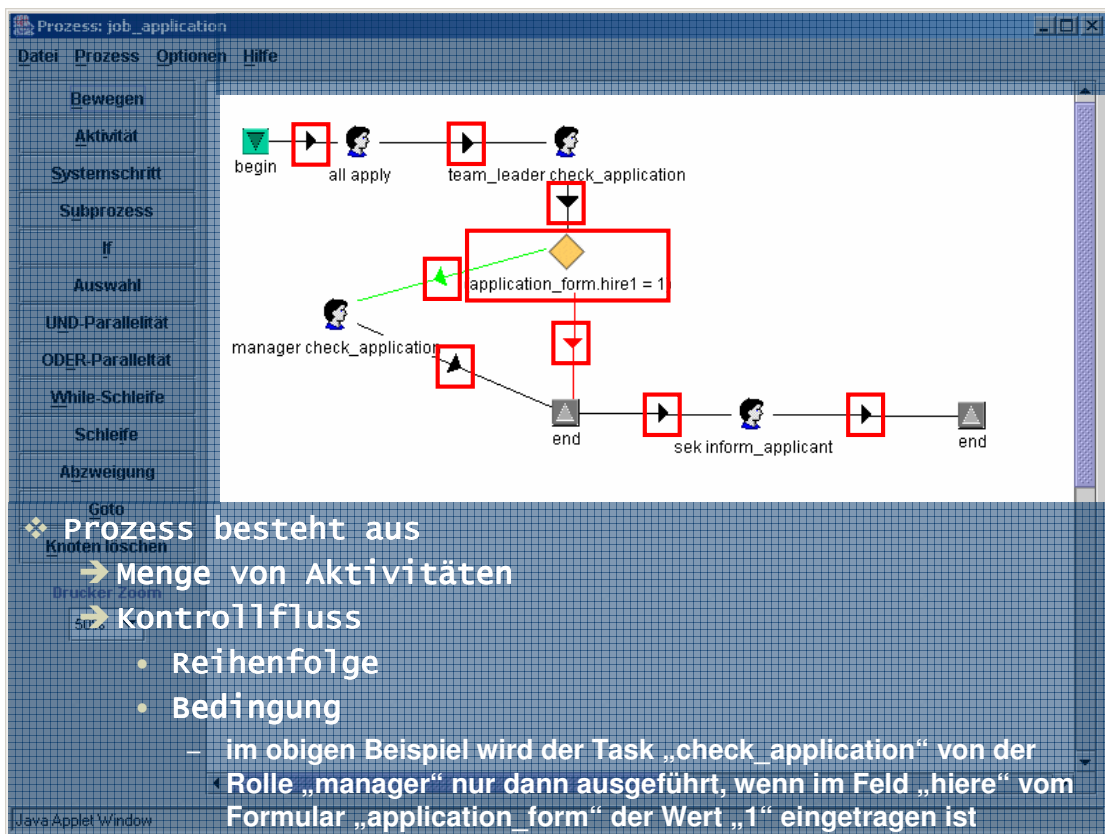
- ❖ XWDL (XML-Version der Workflow Definition Language) ist die Prozessbeschreibungssprache von @enterprise entsprechend der DTD für @enterprise Prozesse
- ❖ ermöglicht
 - ➔ Definition von Prozessen mit XML
 - ➔ Austausch von Daten mit anderen Workflowsystemen

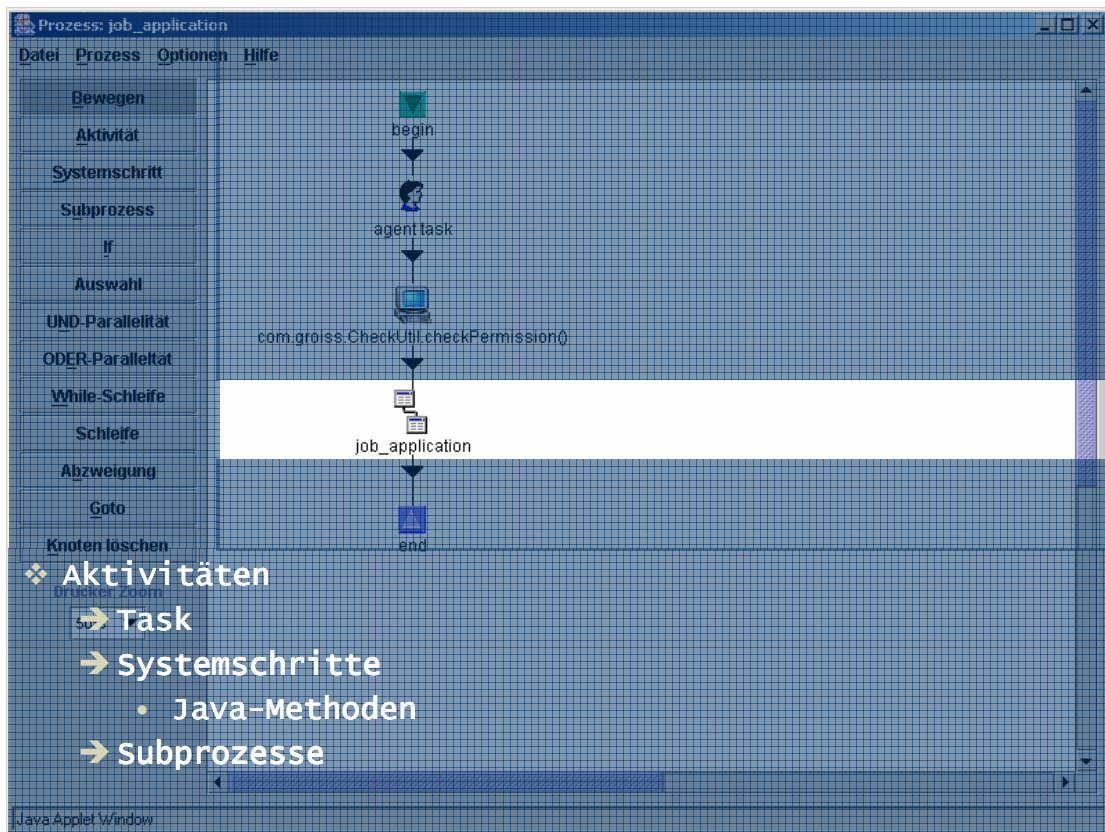
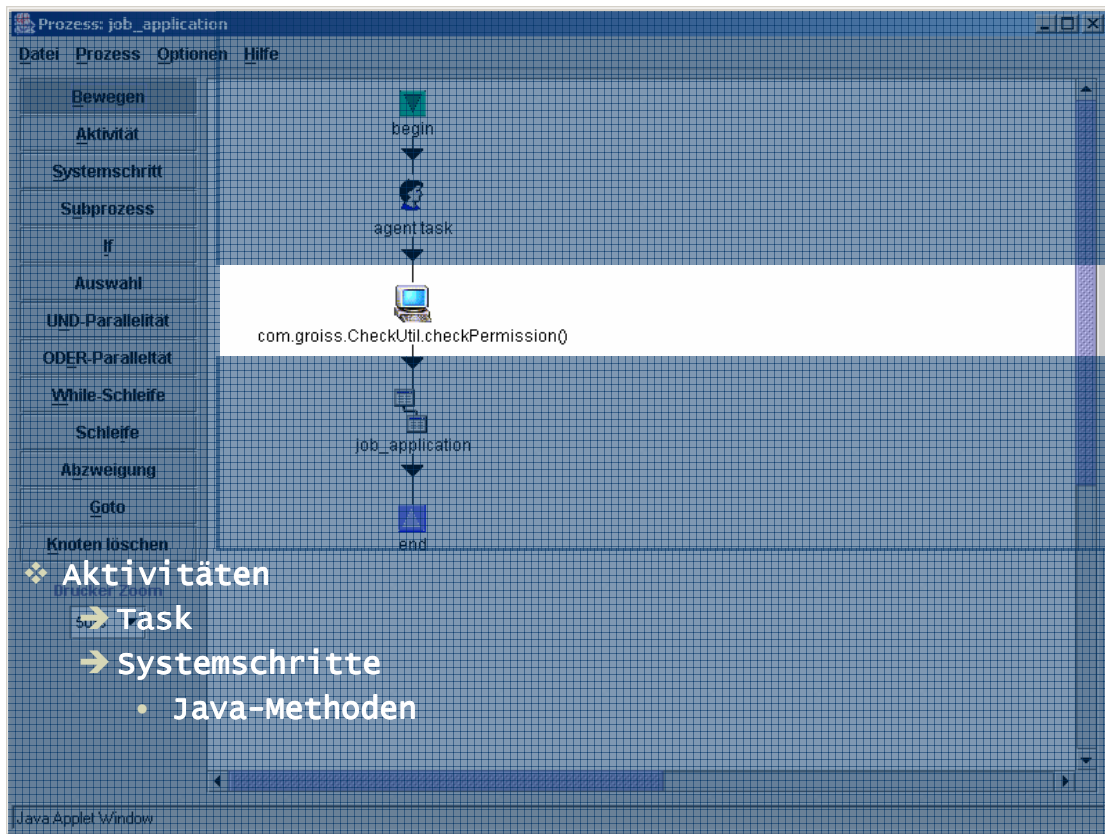


❖ Prozess besteht aus
→ Menge von Aktivitäten



❖ Prozess besteht aus
→ Menge von Aktivitäten
→ Kontrollefluss
• Reihenfolge

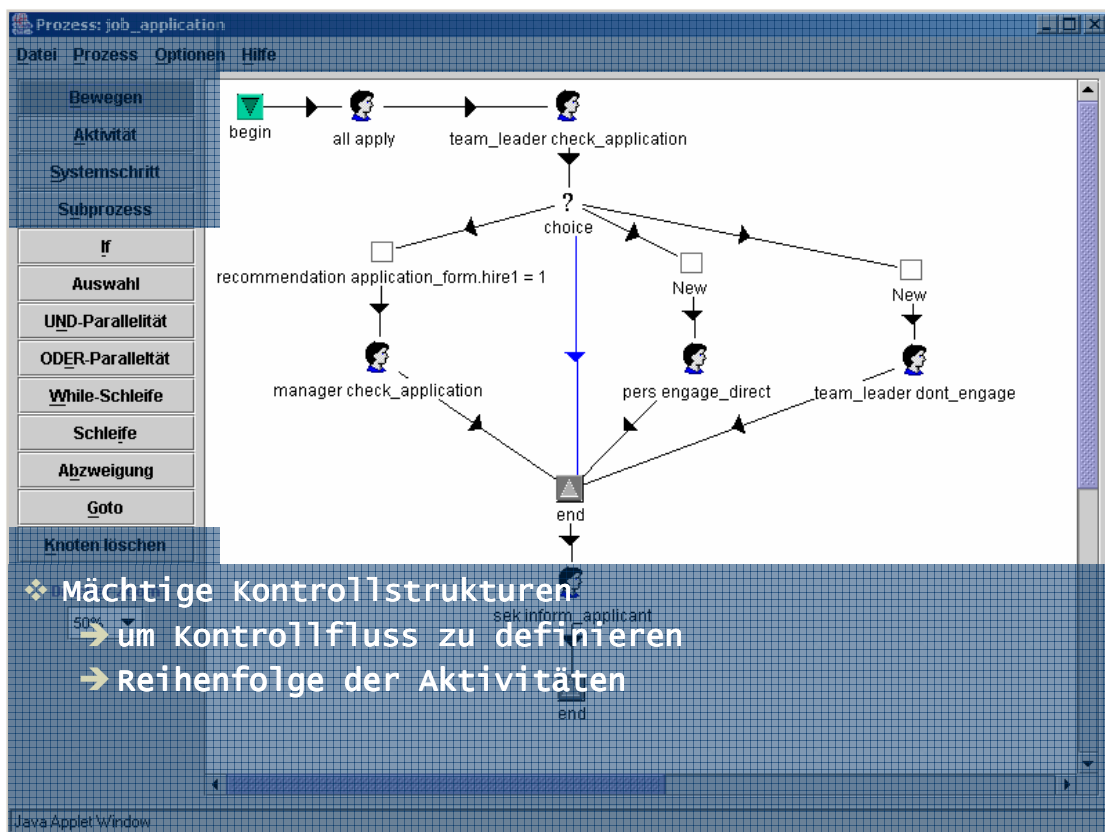


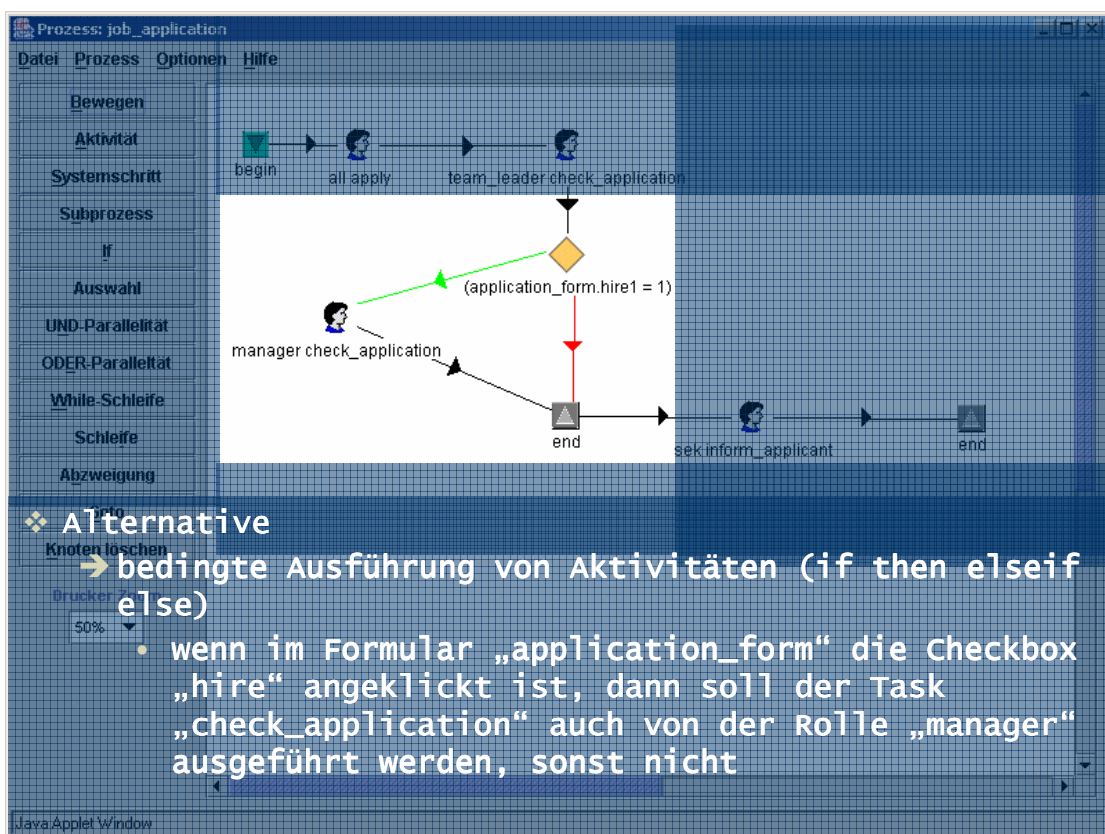
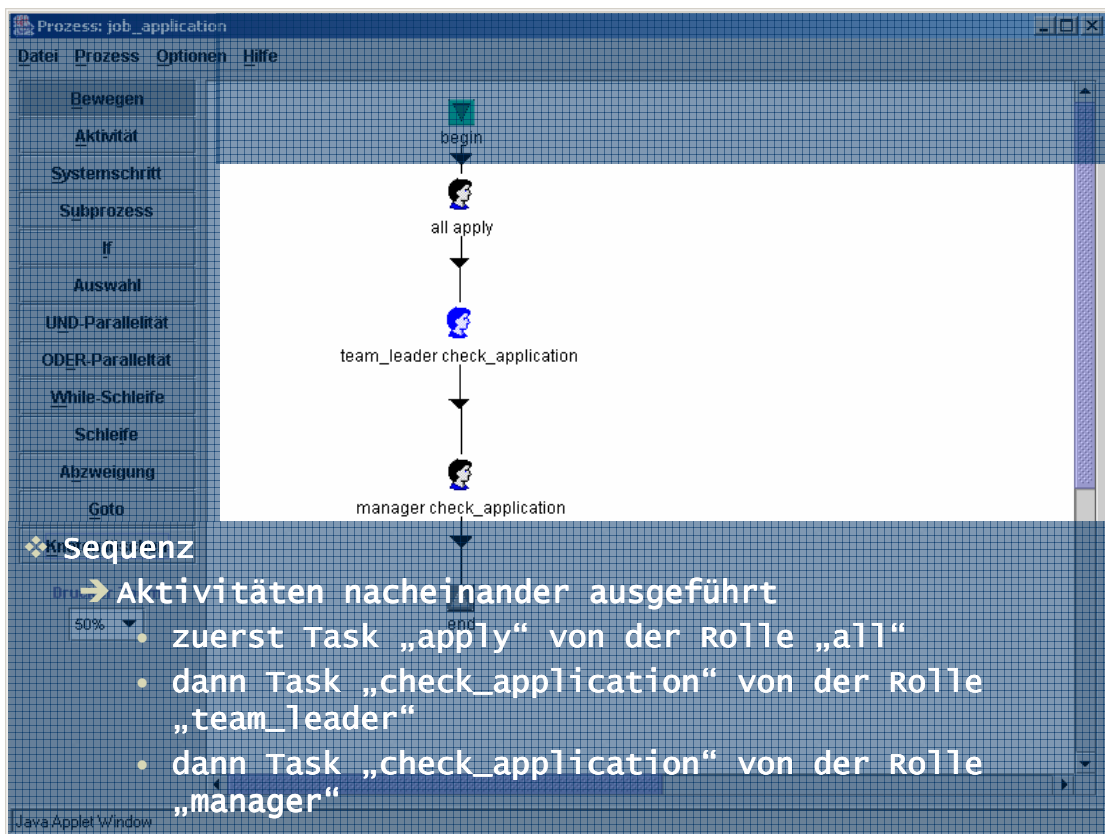


Prozessdefinition – Akteure für Task

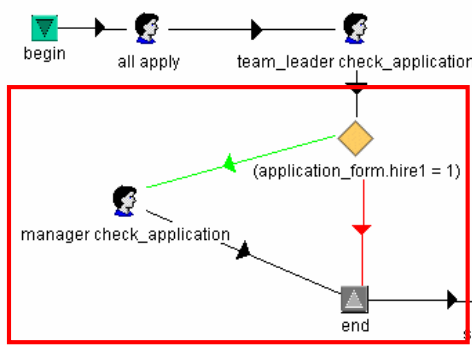
- ❖ Benutzername
 - ➔ Müller Anton
- ❖ Rolle
 - ➔ Sekretärin, Manager, Teamleiter, Sachbearbeiter, ...
- ❖ Organisationseinheit
 - ➔ Verwaltung, Kreditabteilung, Labor, ...
- ❖ Kombination aus Organisationseinheit und Rolle
 - ➔ Kreditabteilung!Sachbearbeiter
- ❖ Label
 - ➔ Akteur eines vorhergehenden Tasks
- ❖ Formularfeld
 - ➔ form.recipient
- ❖ leerer Akteur
 - ➔ wird zur Laufzeit gesetzt
- ❖ Liste von Akteuren
 - ➔ verschieden Formen können gemischt werden

Prozessdefinition - Kontrollstrukturen





Prozessdefinition - Kontrollstrukturen



WDL-Source

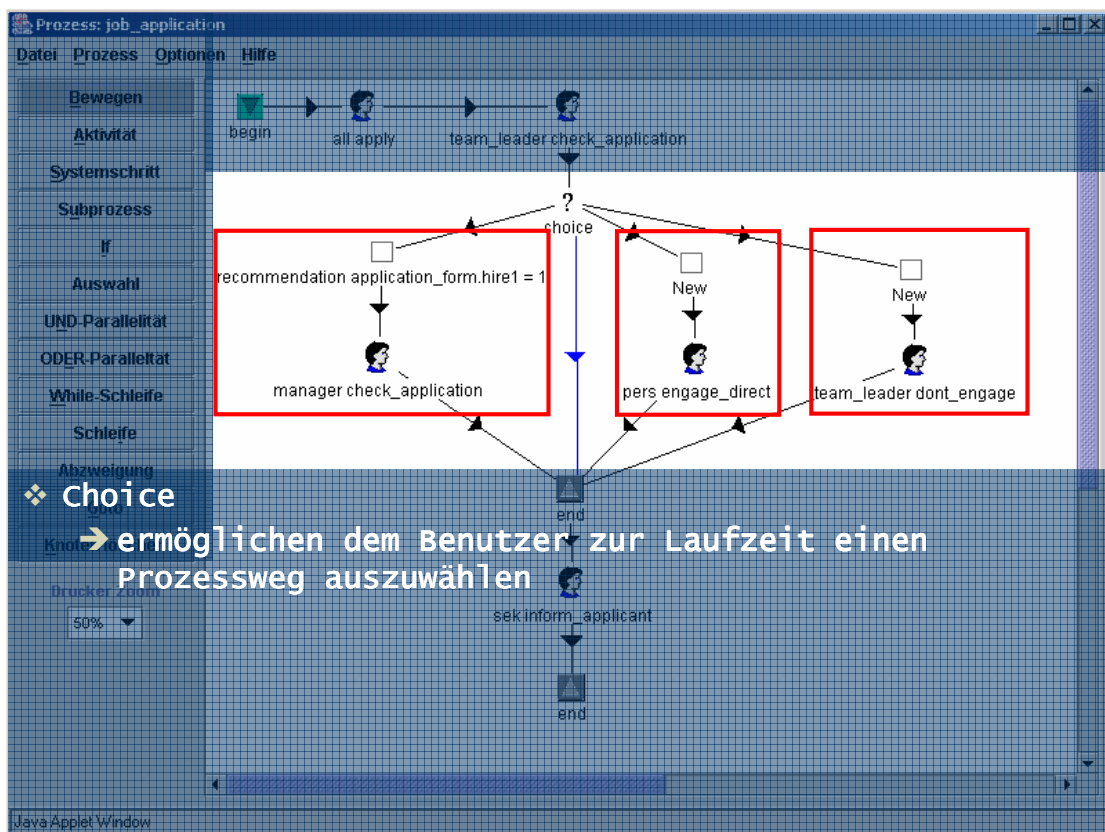
```

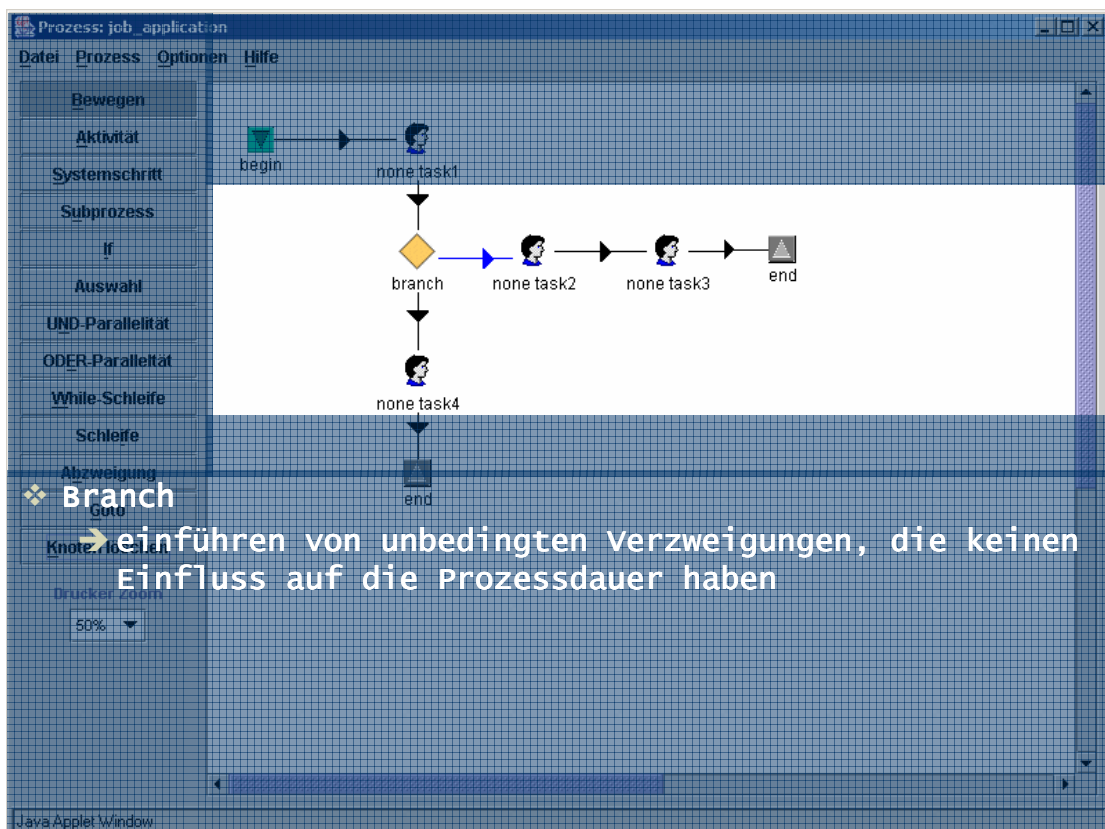
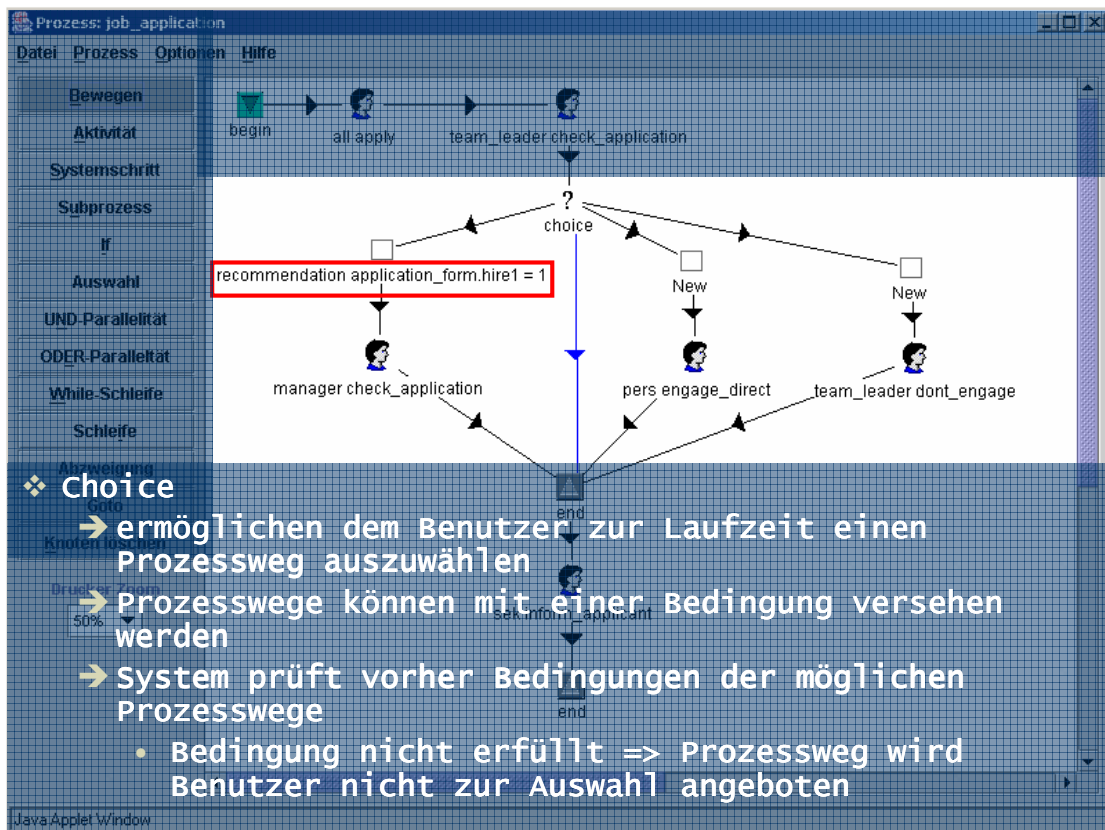
process job_application()
version 2;
name "job_application";
forms application_form job_application,f2 job_applview baseform f,f
job_application;
subject f.aname;
timeoutaction none;
application default;
begin
all apply(application_form);
team_leader check_application(application_form);
if (application_form.hire1 = 1) then
manager check_application(application_form);
end;
sek inform_applicant(application_form) skinnable
  
```

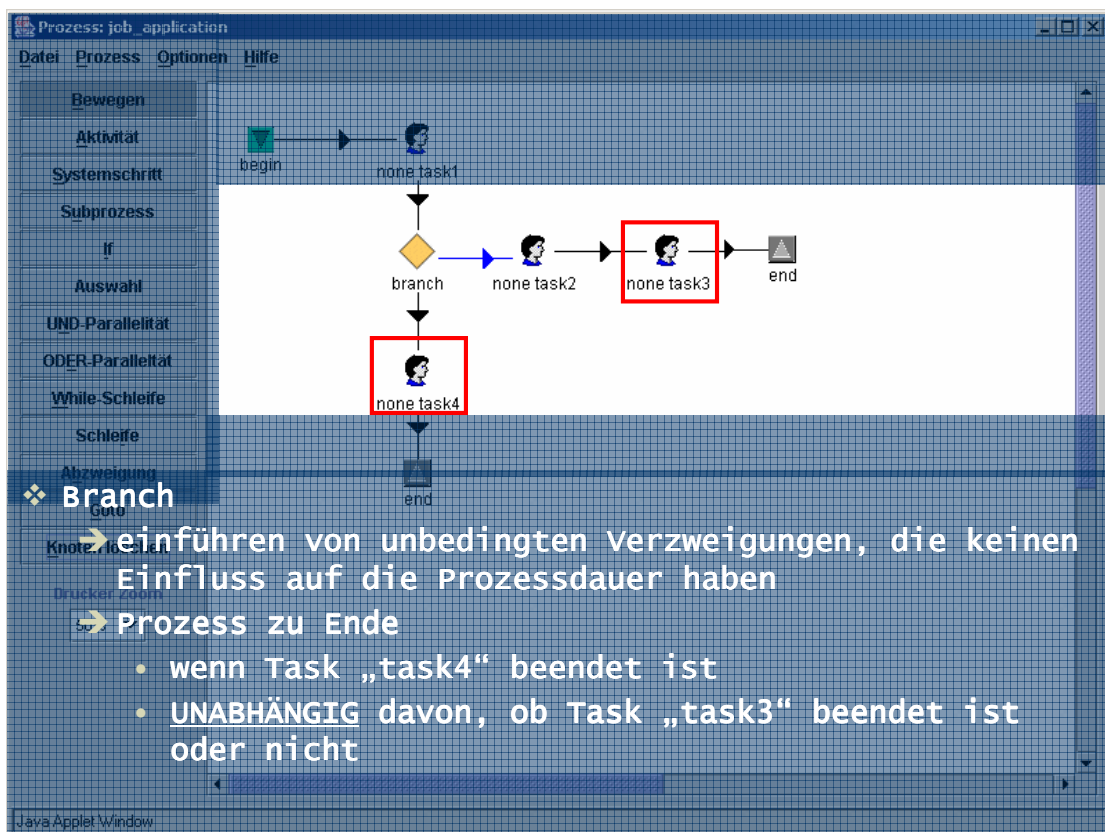
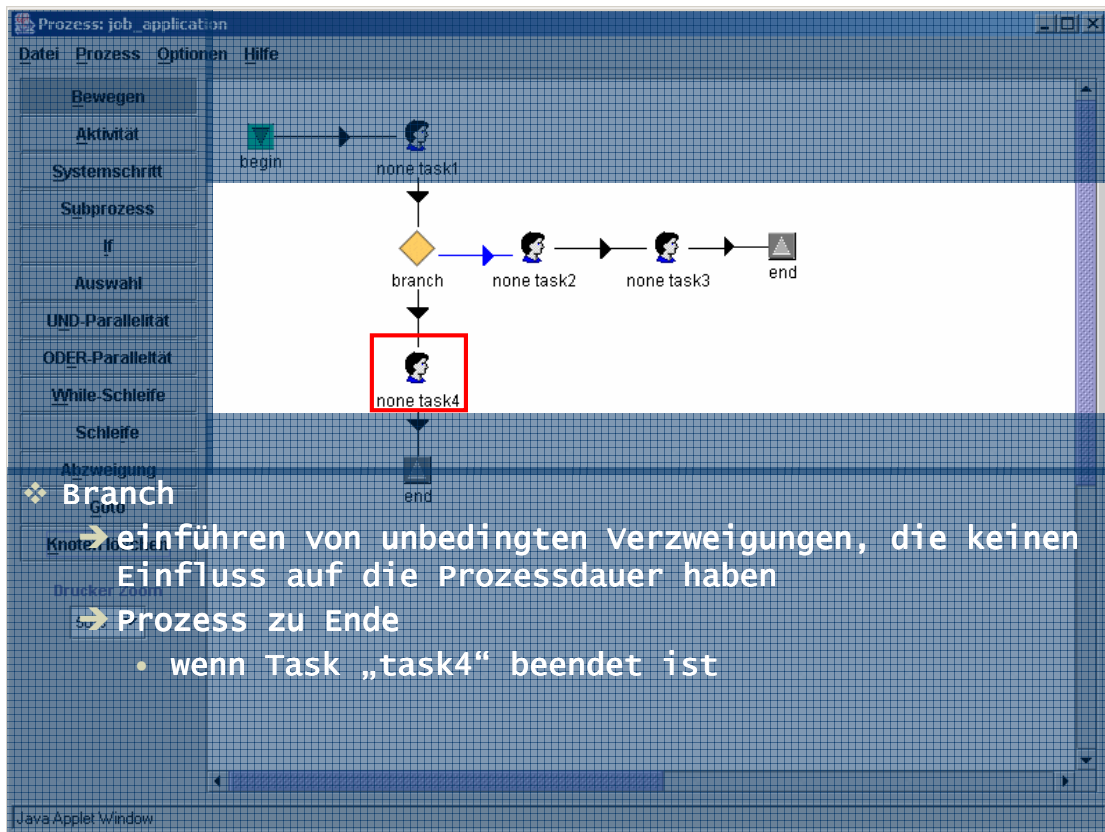
```

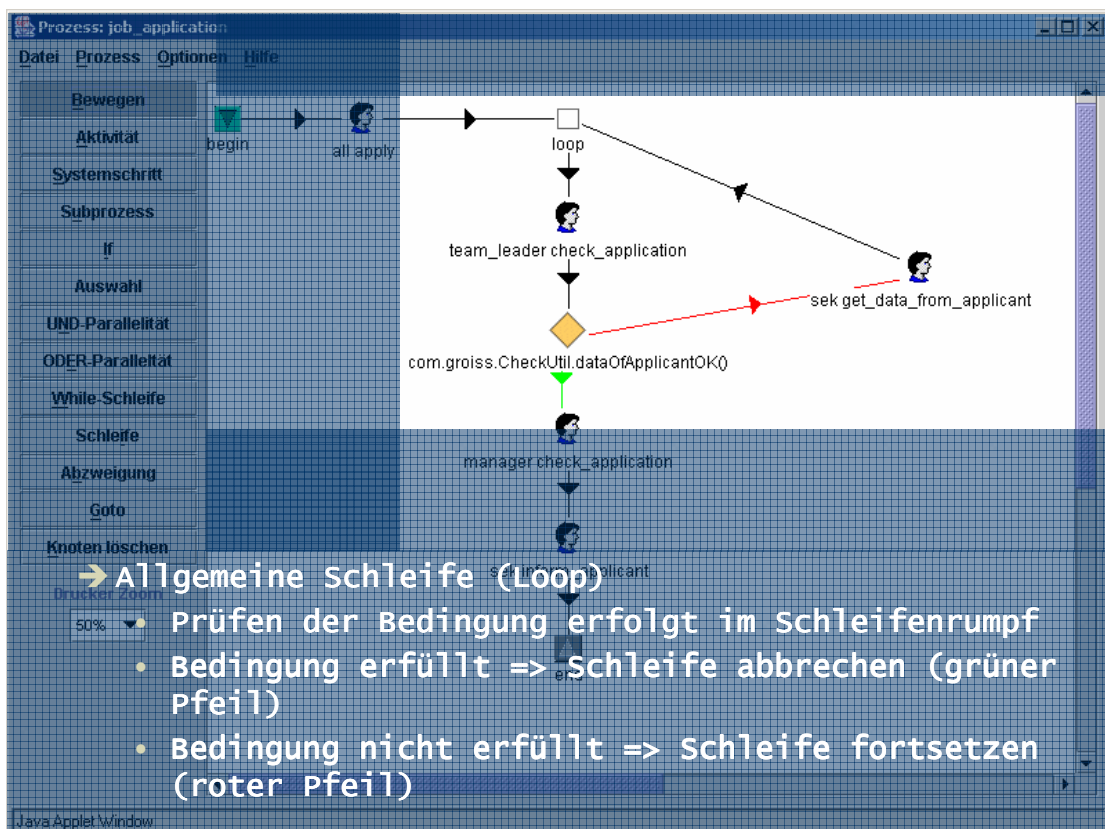
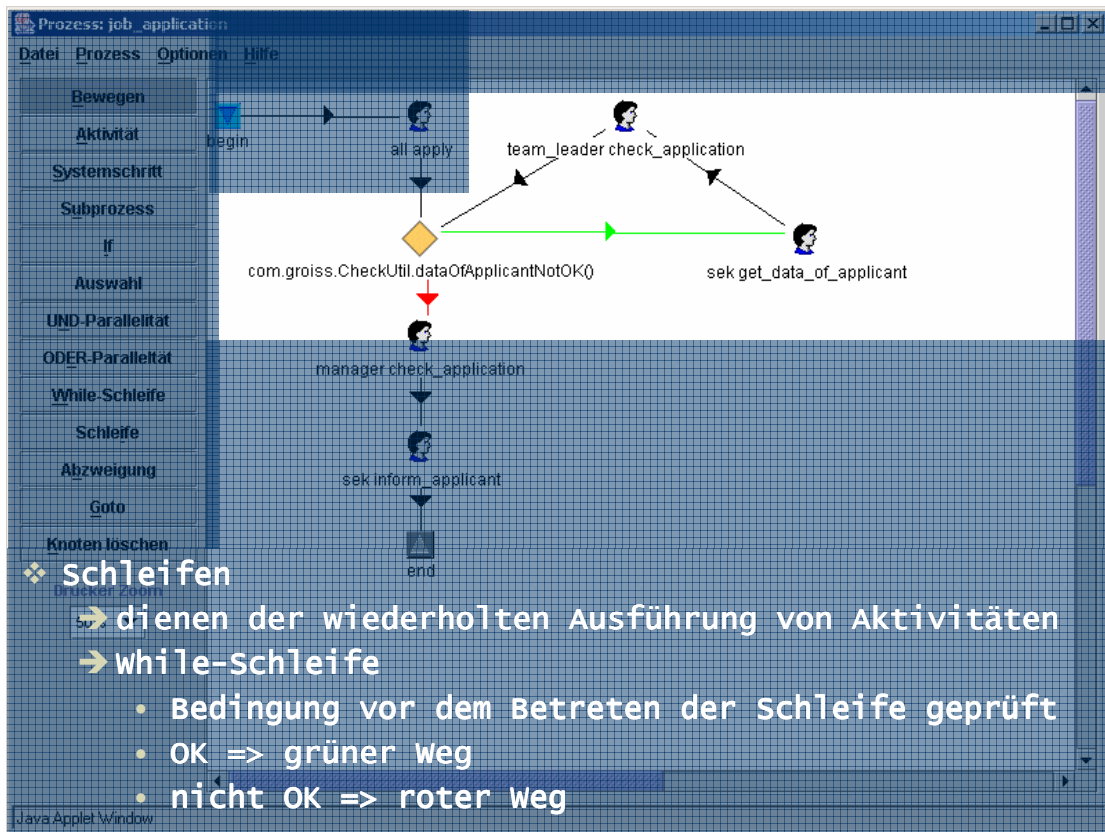
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE process (View Source for full doctype...)>
<process id="job_application" version="2"
name="job_application" subject="f.aname"
application="default" x="35" y="43" xend="554" yend="242"
xmlns:xwdl="http://www.groiss.com">
  <forms>
    <formdecl id="application_form"
      typ="job_application" />
    <formdecl id="f" typ="job_application" />
    <formdecl id="f2" typ="job_applview" baseform="f" />
  </forms>
  <timing timeoutaction="none" />
  <activity id="apply" x="110" y="44">
    <agent string="all" />
    <form name="application_form" />
  </activity>
  <activity id="check_application" x="261" y="44">
    <agent string="team_leader" />
    <form name="application_form" />
  </activity>
  <if condition="(application_form.hire1 = 1)" x="261"
    y="123" xend="260" yend="240">
    <then>
      <activity id="check_application" x="94" y="169">
        <agent string="manager" />
        <form name="application_form" />
      </activity>
    </then>
  </if>
  <activity id="inform_applicant" skipable="true" x="395"
    y="241">
    <agent string="sek" />
    <form name="application_form" />
  </activity>
</process>
  
```

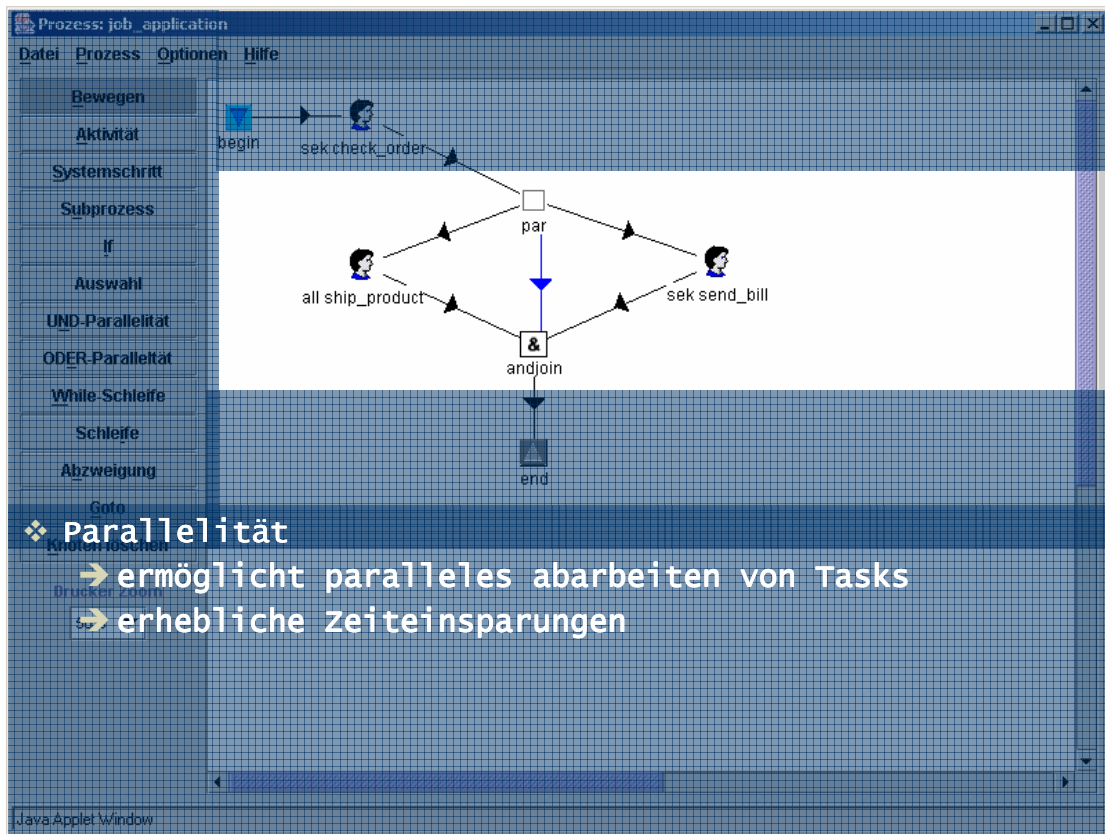
Prozessdefinition - Kontrollstrukturen





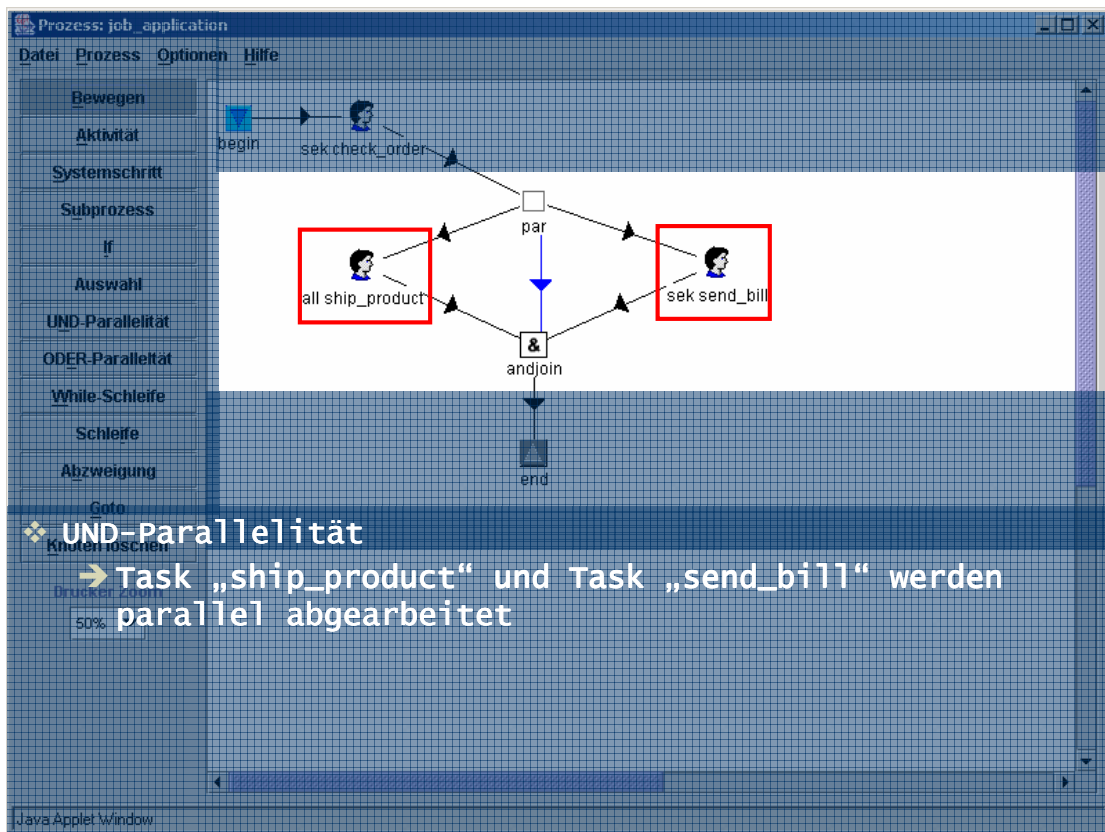






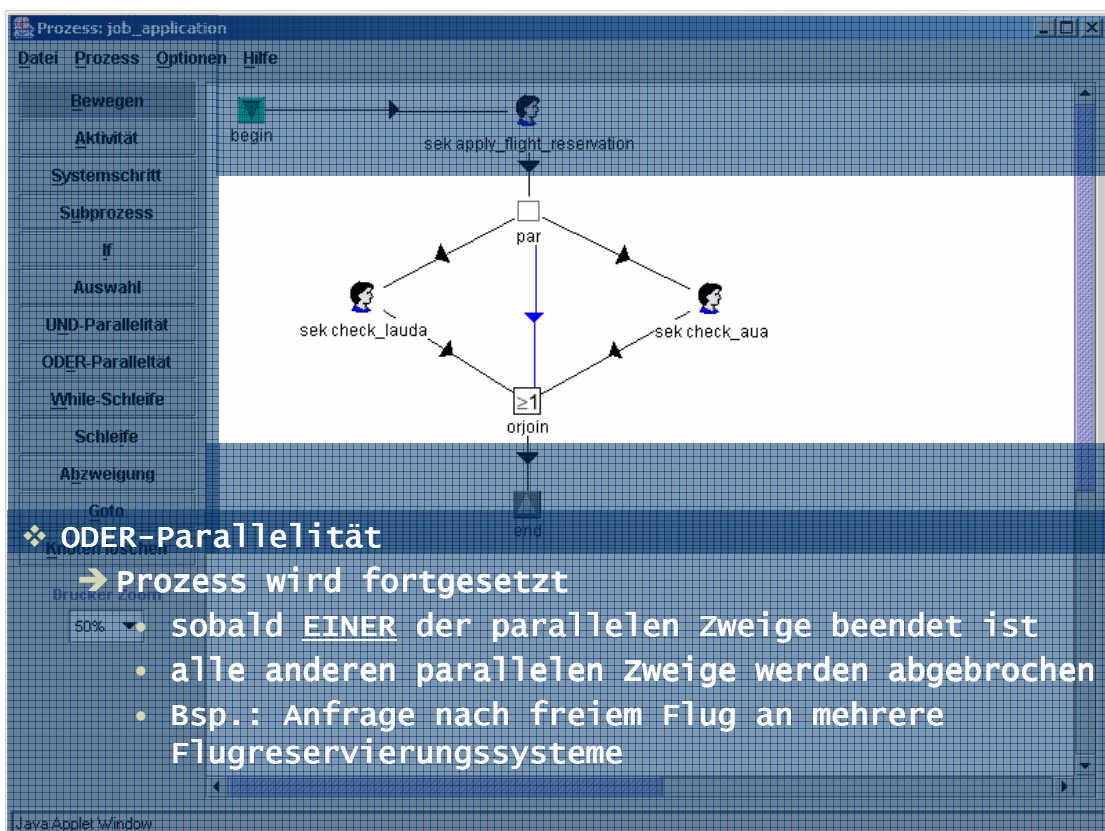
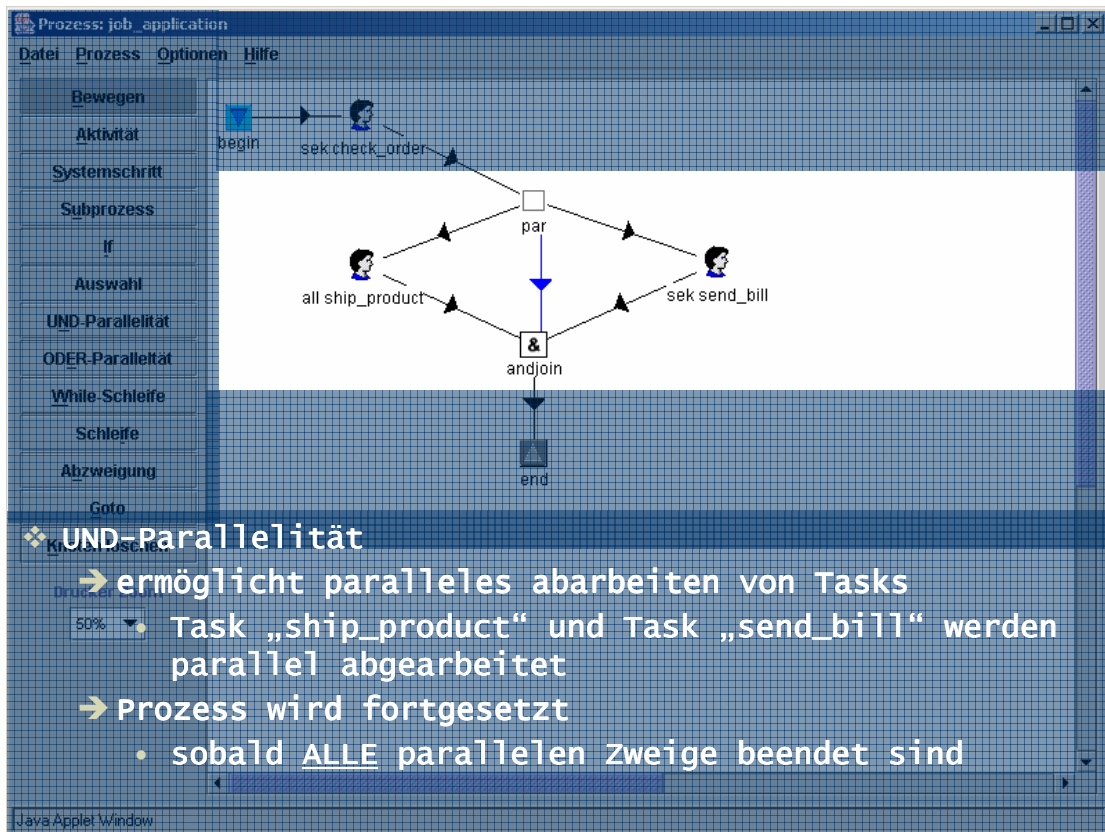
❖ Parallelität

- ermöglicht paralleles abarbeiten von Tasks
- erhebliche Zeiteinsparungen

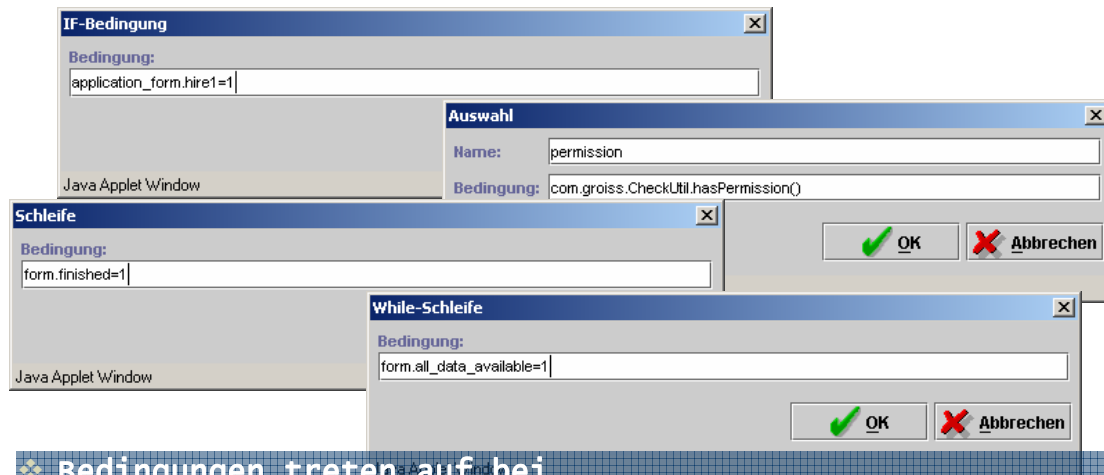


❖ UND-Parallelität

- Task „ship_product“ und Task „send_bill“ werden parallel abgearbeitet



Prozessdefinition - Kontrollstrukturen

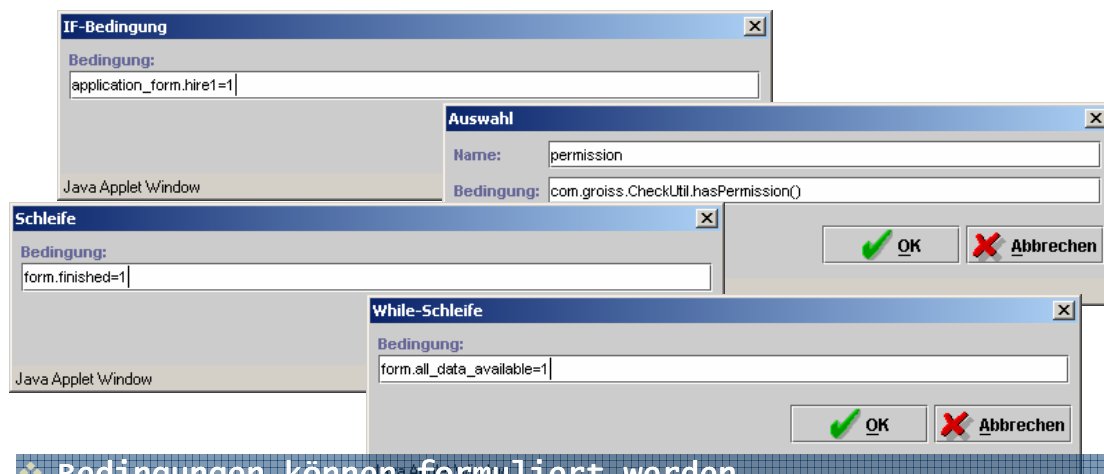


The screenshot shows four overlapping dialog boxes from a process definition tool:

- IF-Bedingung**: A dialog box with a text field containing the condition `application_form.hire1=1`.
- Auswahl**: A dialog box with a text field for 'Name' containing 'permission' and a text field for 'Bedingung' containing `com.groiss.CheckUtil.hasPermission()`. It has 'OK' and 'Abbrechen' buttons.
- Schleife**: A dialog box with a text field containing the condition `form.finished=1`. It has 'OK' and 'Abbrechen' buttons.
- While-Schleife**: A dialog box with a text field containing the condition `form.all_data_available=1`. It has 'OK' and 'Abbrechen' buttons.

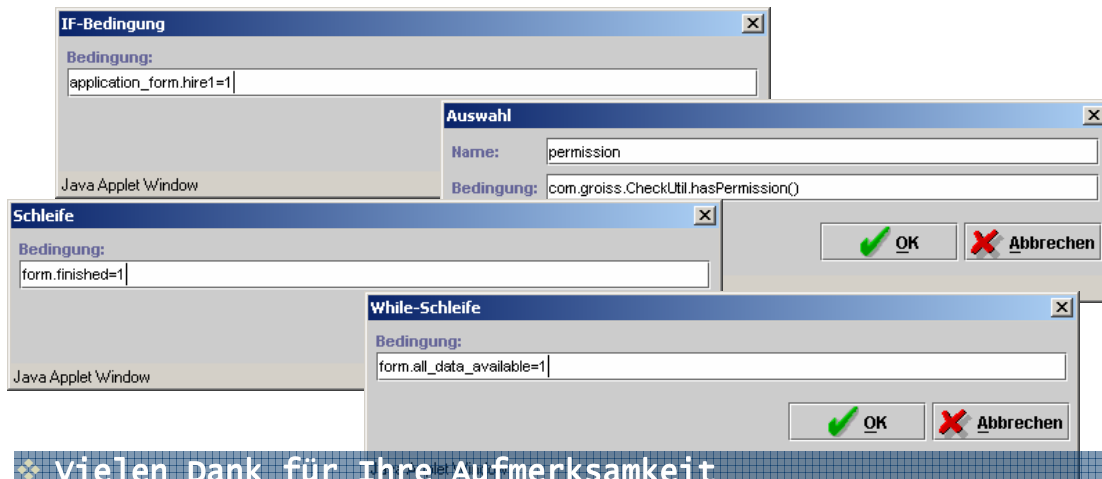
- ❖ Bedingungen treten auf bei
 - Alternativen
 - Schleifen
 - Choice
 - Postconditions von Tasks

Prozessdefinition - Kontrollstrukturen



This is a duplicate of the screenshot above, showing the same four dialog boxes for process control structures: IF-Bedingung, Auswahl, Schleife, and While-Schleife.

- ❖ Bedingungen können formuliert werden
 - Formularfeldern
 - `form.finished=1`
 - Java-Methoden
 - `com.groiss.Calendar.isWorkDay(date)`
 - beliebige Kombination der ersten beiden Möglichkeiten



The screenshot displays a Java Applet Window with four overlapping dialog boxes for defining control structures:

- IF-Bedingung**: Bedingung: `application_form.hire1=1`
- Auswahl**: Name: `permission`, Bedingung: `com.groiss.CheckUtil.hasPermission()`
- Schleife**: Bedingung: `form.finished=1`
- While-Schleife**: Bedingung: `form.all_data_available=1`

Each dialog box includes an 'OK' button (marked with a green checkmark) and an 'Abbrechen' button (marked with a red X).

❖ Vielen Dank für Ihre Aufmerksamkeit

❖ Interessieren Sie sich für weitere Details?

❖ wir helfen Ihnen gerne weiter!

❖ Bei Fragen:

→ Email: office@groiss.com

→ Tel.: +43 463 504 694 - 12