

Our Problems

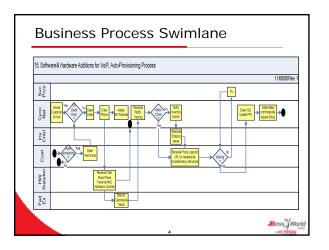
- Not clearly defined business process
- Disconnected data sharing and application access
- Lack of IT infrastructure support
- High cost of existing commercial BPM tool

Boss World

JBPM Winning Points

- Simple process definition language and vocabulary
- Highly pluggable architecture for easy integration
- Flexible GUI integration
- No cost tool and IDE
- Broader user community support and activities



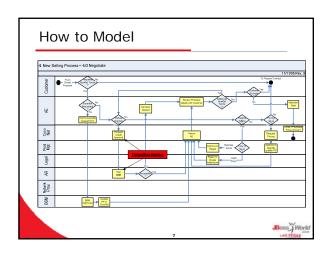


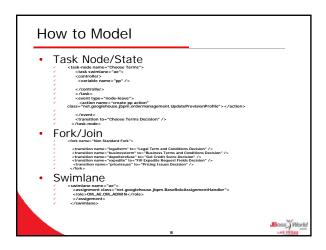
How to Model

- · Task Node/State
- Fork/Join
- Swimlane
- Decision
- Action handler
- Timer/Scheduler

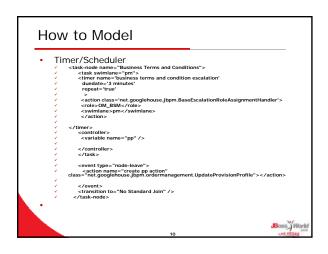
TS Software & Hardware Additions for VoIP, Auto-Provisioning Process

Task Mode/Rises





Pocision decision numerations form Decision* > decision numerations form Decision* > decision numeration n



Role and Group • Actor and Pool Actors • Private View -> Actor • Role/Group View -> Pool Actors • Design time assignment handler-> Action class in swimlane • Runtime assignment handler-> action class in task node events

```
Runtime Role Assignment Code

private String role = null;
private String dueDate = null;
private static BusinessCalendar businessCalendar = new BusinessCalendar();
public void execute(ExecutionContext executionContext) throws Exception (

Duration duration = new Duration(dueDate);
ProvisioningPriolite pe = (ProvisioningProfile)getVariable(executionContext,"pp");
Date dueDate = businessCalendar add(pp getModifiedDate(), duration);

if (isDue(dueDate)) // time is up, escalate it to the new role assign(executionContext, getTaskMgmIn stance() getSwimlane(), executionContext);

// public void assign(Assignable assignable, ExecutionContext executionContext)

// **TOO Assignable SetActorid(null) // Date to the pool first assignable setPooledActoris Garachiscs(poids);
assignable setPooledActoris Garachiscs(poids);
assignable setPooledActoris Garachiscs(poids);
assignable setPooledActoris Garachiscs(poids);
**executionContext.getTaskInstance().getName());

// **ProvisioningProfiles() | ProvisioningProfiles() | Provisionin
```

JAAS Integration

- Integration with JBoss JAAS framework
- Customized JAAS database
- · Leverage existing user and group management



JBOSS JAAS Integration

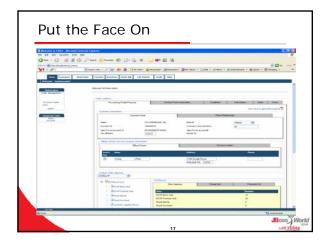
- Add standard J2EE security constrains and roles in Web.xml
- Add application policy in the login-config.xml in JBoss
- Add JBoss-web.xml to WAR to map the application policy entry in the login-config.xml
- Add user information by looking up by user id in the web authentication filter

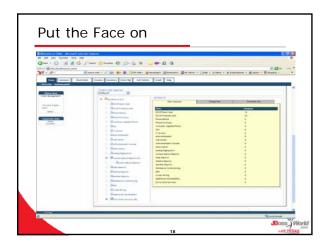
Put the Face on

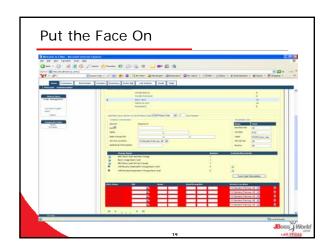
- Choice of GUI –Java Server Face
- Rich components set provided by JSF and My Faces open source tool
- Nature integration with JBPM variables and JSF managed bean model
- Easy Portal and portability support for flexible GUI











Conclusions

- JBPM provides the simple tool sets that can solve the complex telecommunication process
- Open source JSF/MyFaces offers rich components and build-in portal integration
- Open source rocks -> JBPM,JSF/MyFaces, JBoss and Eclipse
- A complete development/deployment suite

