JUDE JBoss Users & Developers Conference 2012:Boston

Deep dive into your business processes using jBPM

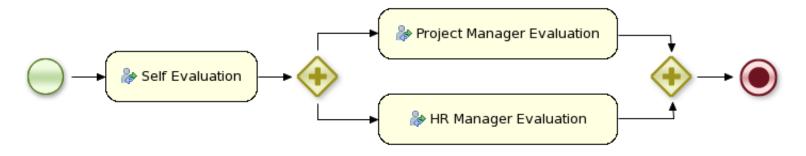
Kris Verlaenen jBPM Project Lead

jBPM Overview

- jBPM Project
- jBPM walkthrough
- Demo
- Adaptive processes
- Roadmap

What is **BPM**?

Business Process Management

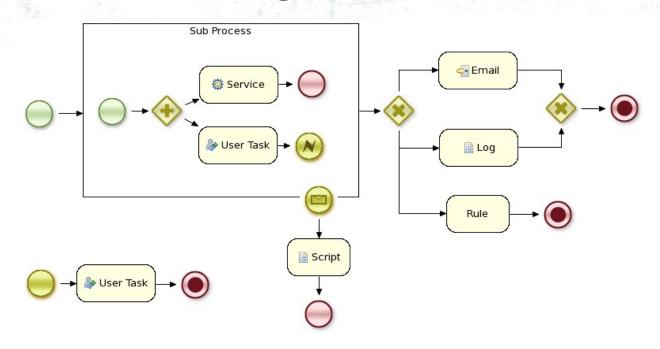


A **business process** is a process that describes the order in which a series of steps need to be executed, using a flow chart.

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Why BPM?



- Visibility
- Monitoring
- Higher-level

- Continuous improvement
- Speed of development
- Increased agility

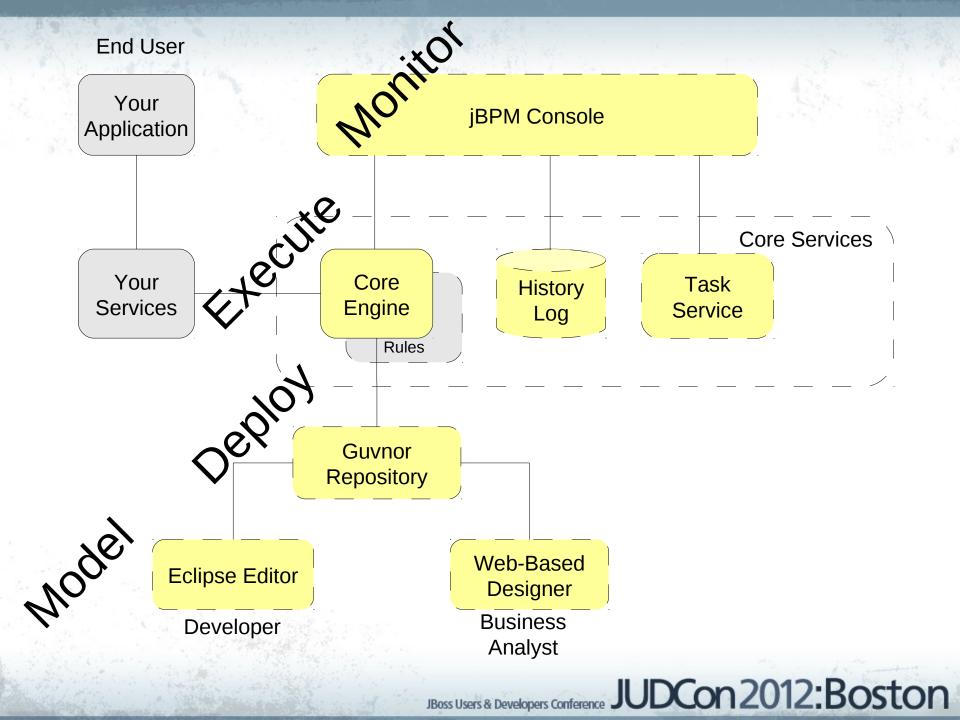
jBPM Project

- (Executable) business processes
 light-weight, native BPMN2 engine
 - from embedded to as a service
- Entire life cycle
- Both developers and business users

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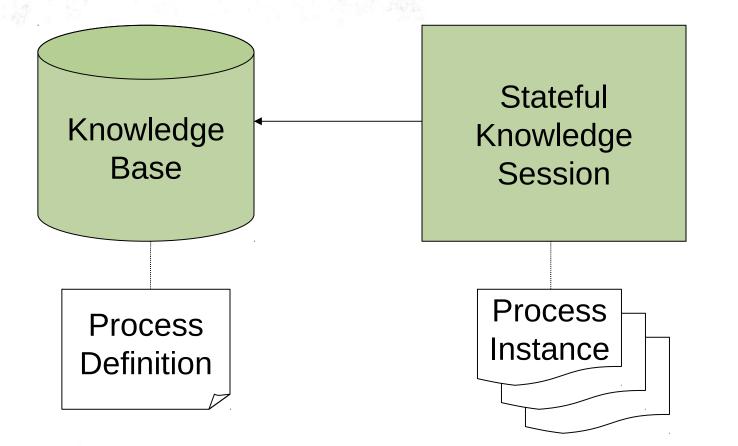
Advanced, adaptive processes



jBPM Walkthrough

- Core Engine
- BPMN2
- Domain-specific processes
- Installer + examples

Core Engine



Java Interface

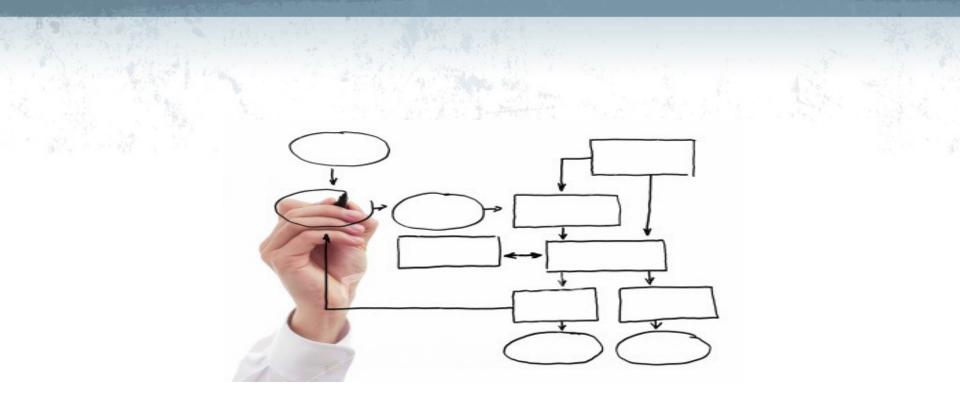
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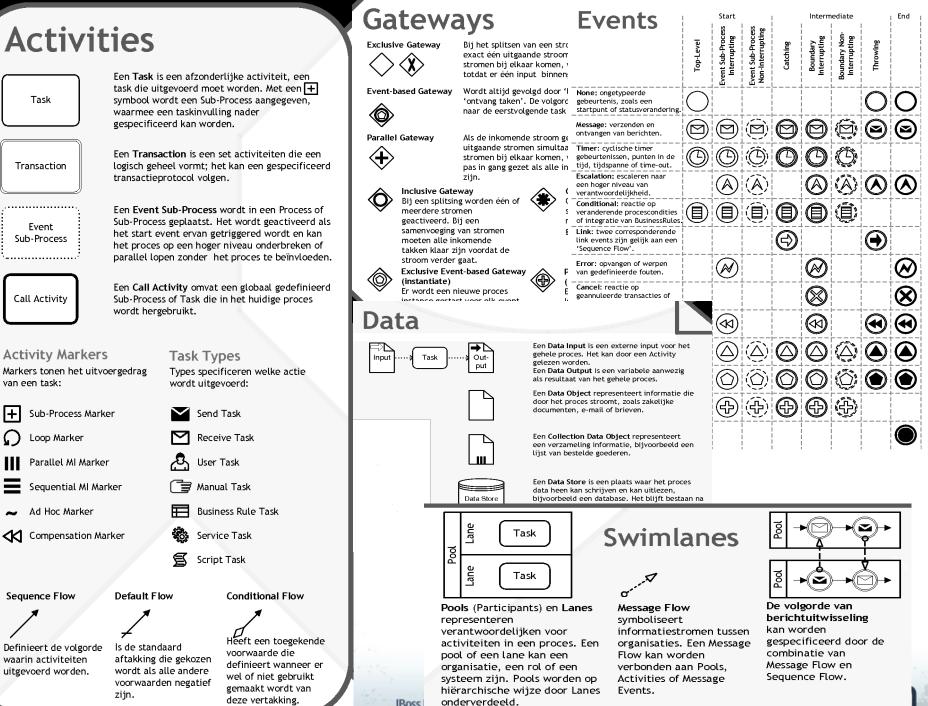
ProcessRuntime interface

- startProcess(processId)
- startProcess(processId, parameters)
- signalEvent(type, event)
- signalEvent(type, event, instanceId)
- abortProcessInstance(instanceId)
- getProcessInstance(instanceId)

Java Example



BPMN 2.0 as the new standard

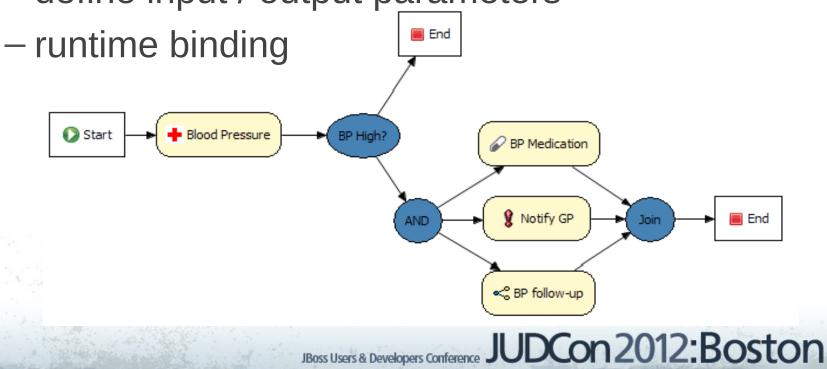


JBoss

Domain-specific Processes

• Extend palette with domain-specific, declarative service nodes

- define input / output parameters



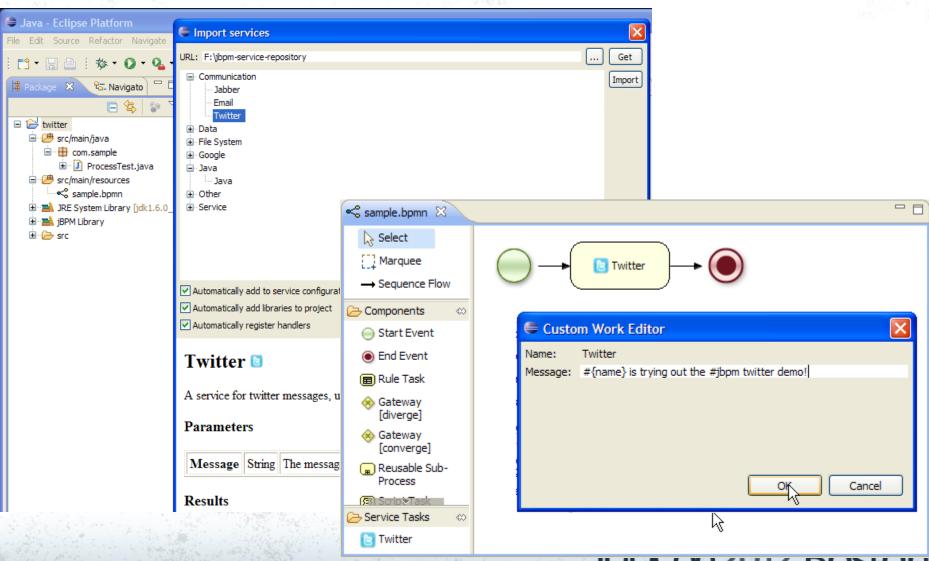
Domain-specific Processes

- Why?
 - Domain-specific
 - Declarative
 - High-level
 - Context-defined

Repository !

- Other examples
 - Human task
 - Java method
 - WS, Rest
 - Email, Twitter
 - FTP, RSS, Jabber
 - Finder, Exec, Archive
 - Google Calendar
 - YOUR SERVICES !

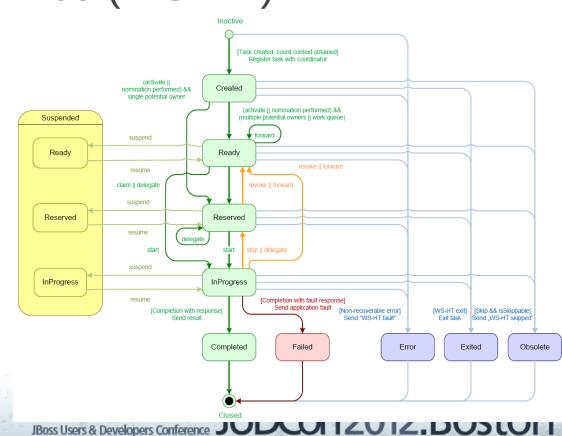
Service Repository



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Human task service

- User task
- Human task service (WS-HT)
 - Task lists
 - Task life cycle
- Task clients
 Task forms





Extra Features

Extra features

- Process instance migration
- JUnit testing
- Spring
- OSGi
- Migration from jBPM3(/4)

Installer

- Out-of-the-box working environment
- Sample process
- Components
 - Eclipse (jBPM + Drools)
 - Guvnor + Designer
 - jbpm-console
 - Services
 - H2 DB, human task service, history log

Examples

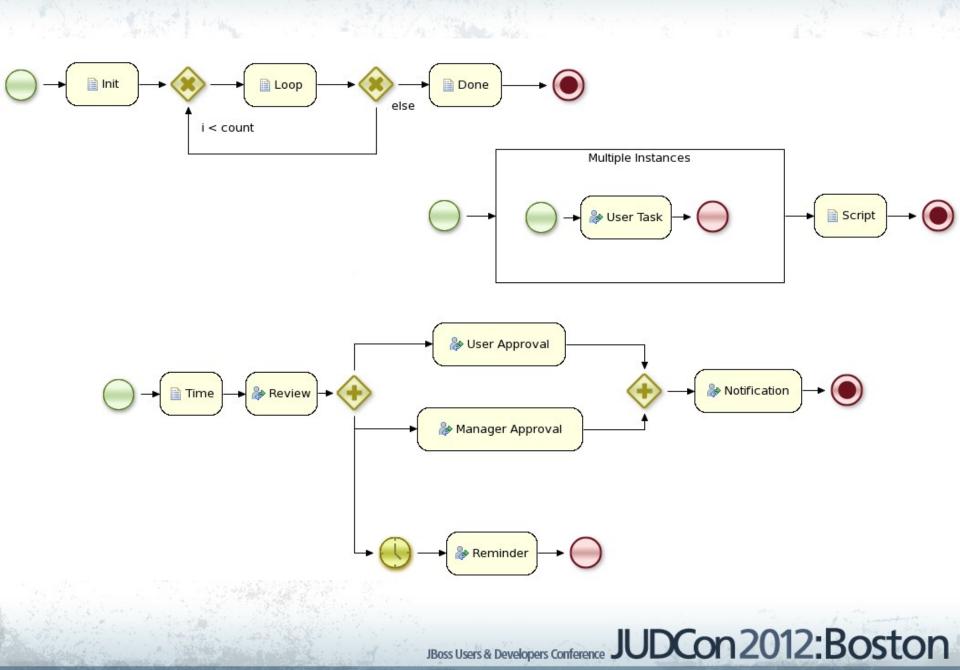


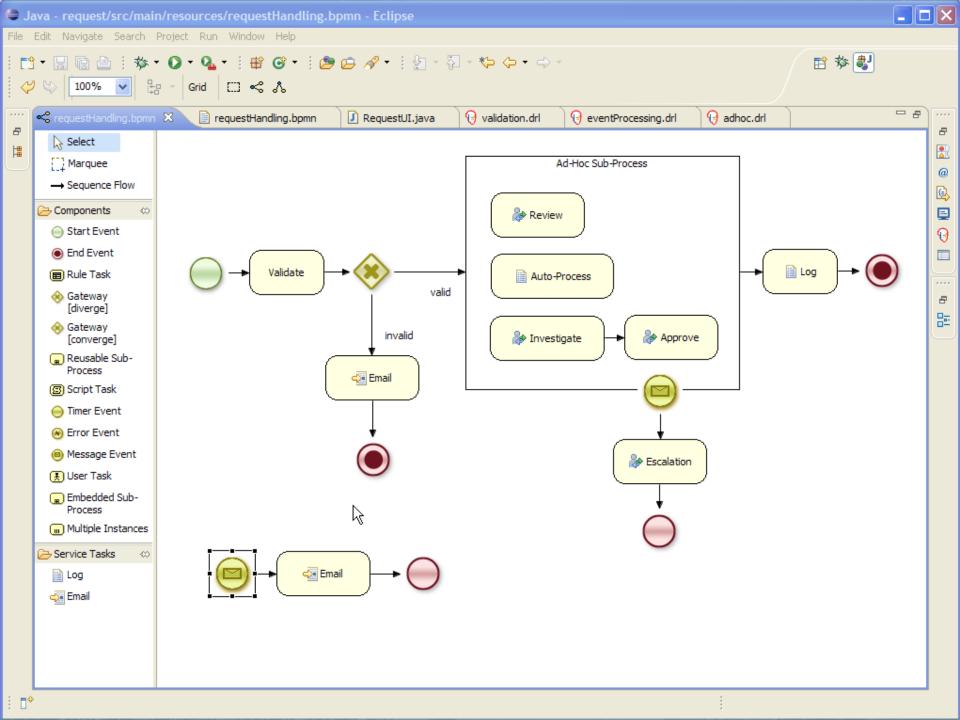
- Examples module
 - Looping
 - Multi-instances
 - Human tasks (including user / group assignment, delegation, forms, etc.)

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– Process + rules integration





JBoss AS 7 + OpenShift

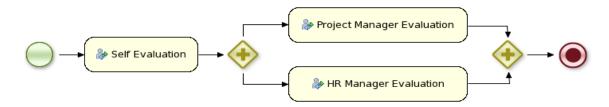
- AS 7
 - Blazingly fast
 - Lightweight
 - Module core
- OpenShift
 - -AS 7 in the cloud



Demo

Ready for the future?

Traditional BPM systems have problems with change, complexity, flexibility, dataintensive applications, etc.



- Adaptive Case Management (ACM)
- Unstructured, non-lineair or flexible processes

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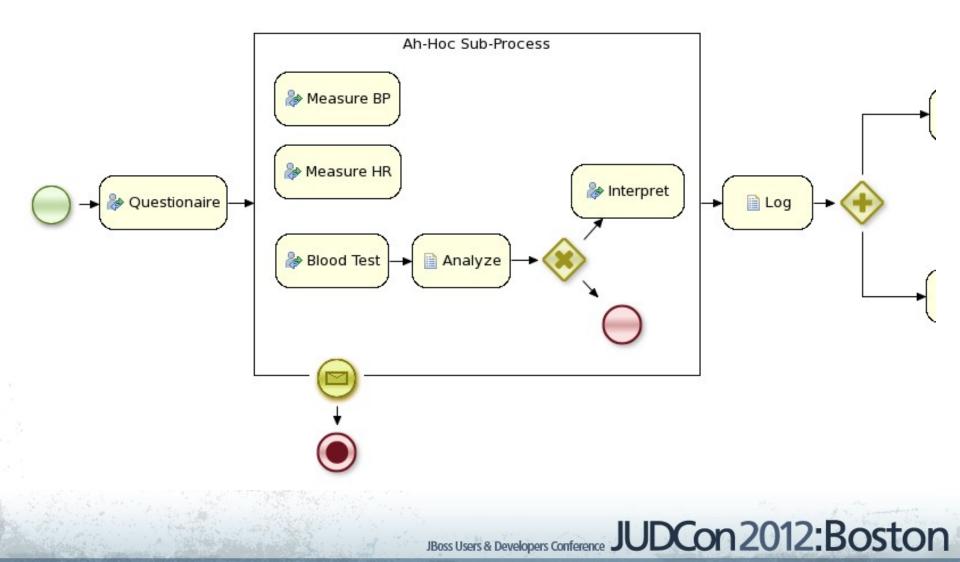
Event-driven BPM (edBPM)



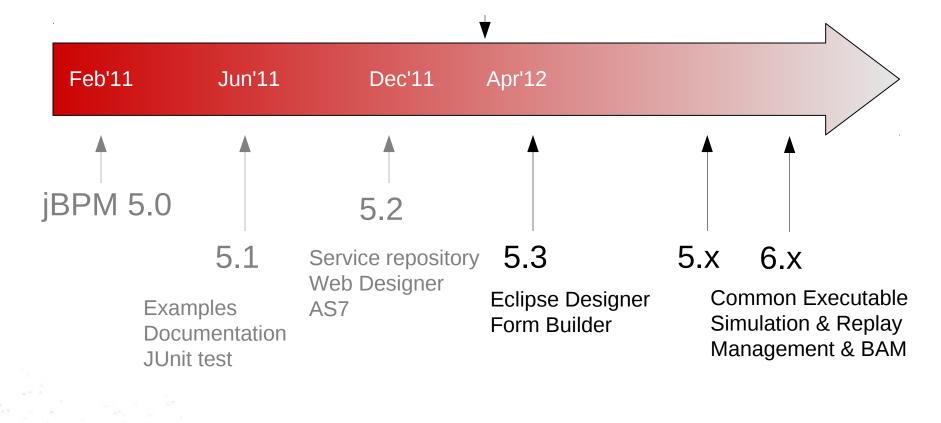


Business Logic

Example: Clinical DSS

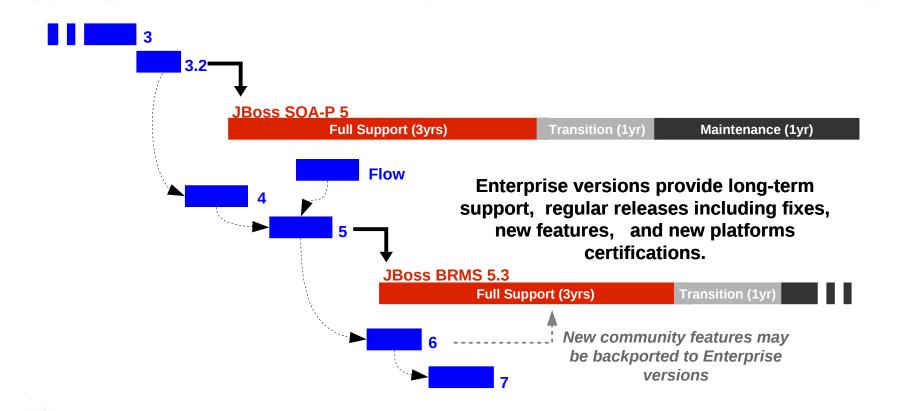


Roadmap



JBoss Enterprise Product Delivery Model

Example: jBPM Community and Enterprise Product



While **community projects** continue to rapidly evolve, **enterprise middleware products** focus on long term stability.

jBPM: What, where?

- jBPM home page
- Source http://github.com/droolsjbpm/jbpm
- Hudson http://hudson.jboss.org/hudson/job/jBPM
- Blog http://kverlaen.blogspot.com/
- #jbpm on irc.codehaus.org
- jbpm-dev@jboss.org
- jBPM user forum

Drools & jBPM All Day Drop in Centre

Friday June 29th Room 105 Hynes Convention Centre

Deep dive into your business processes using jBPM

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