



JBoss jBPM Overview

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Agenda

- **What is JBoss jBPM?**
- **Multi Language Support**
- **Graphical Process Designer**
- **BPMN Reflections**

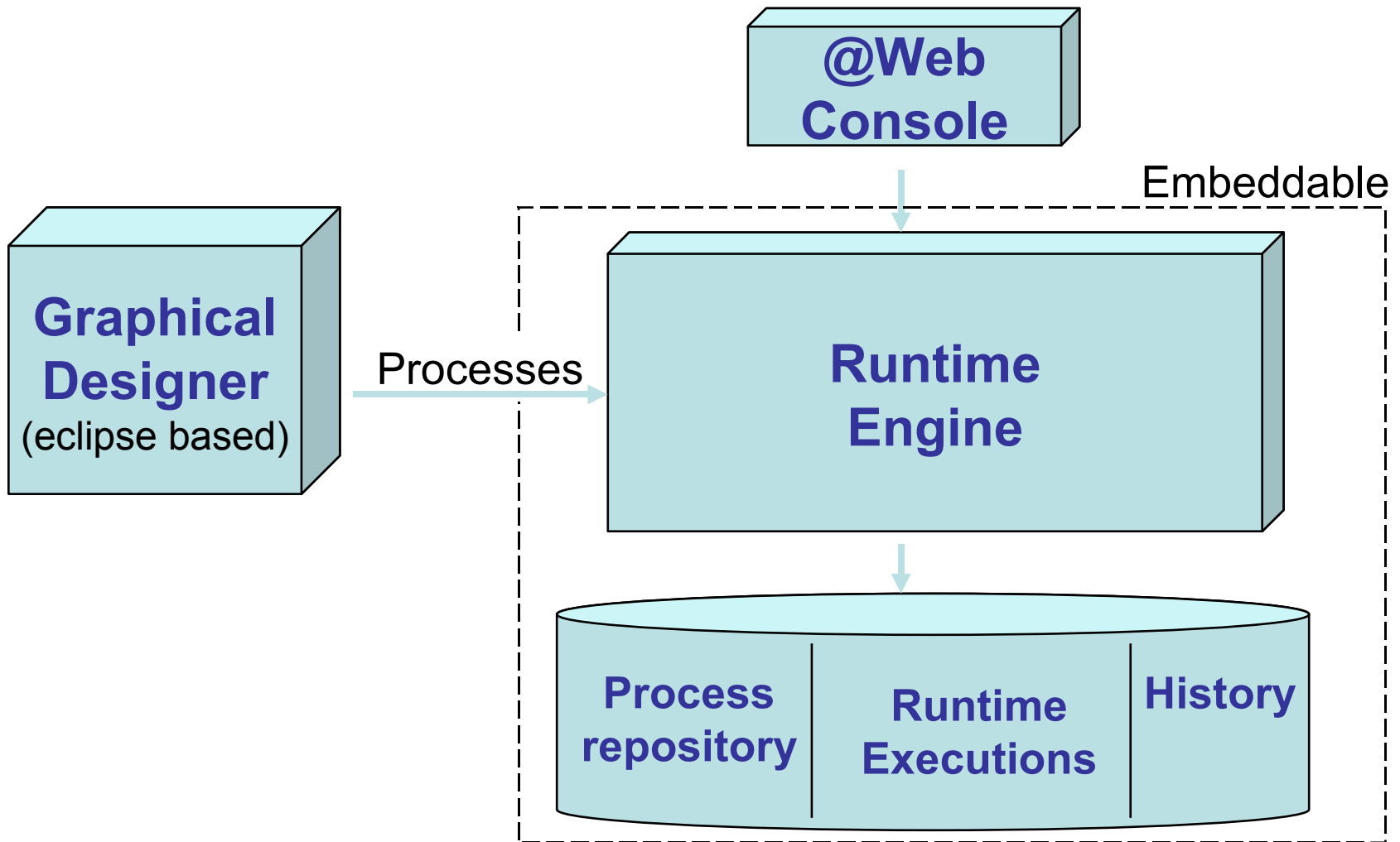
What is it ?

- JBoss jBPM is a sophisticated **state machine**
- JBoss jBPM delivers workflow, business process management (BPM) and service orchestration in **a multi-process language platform**

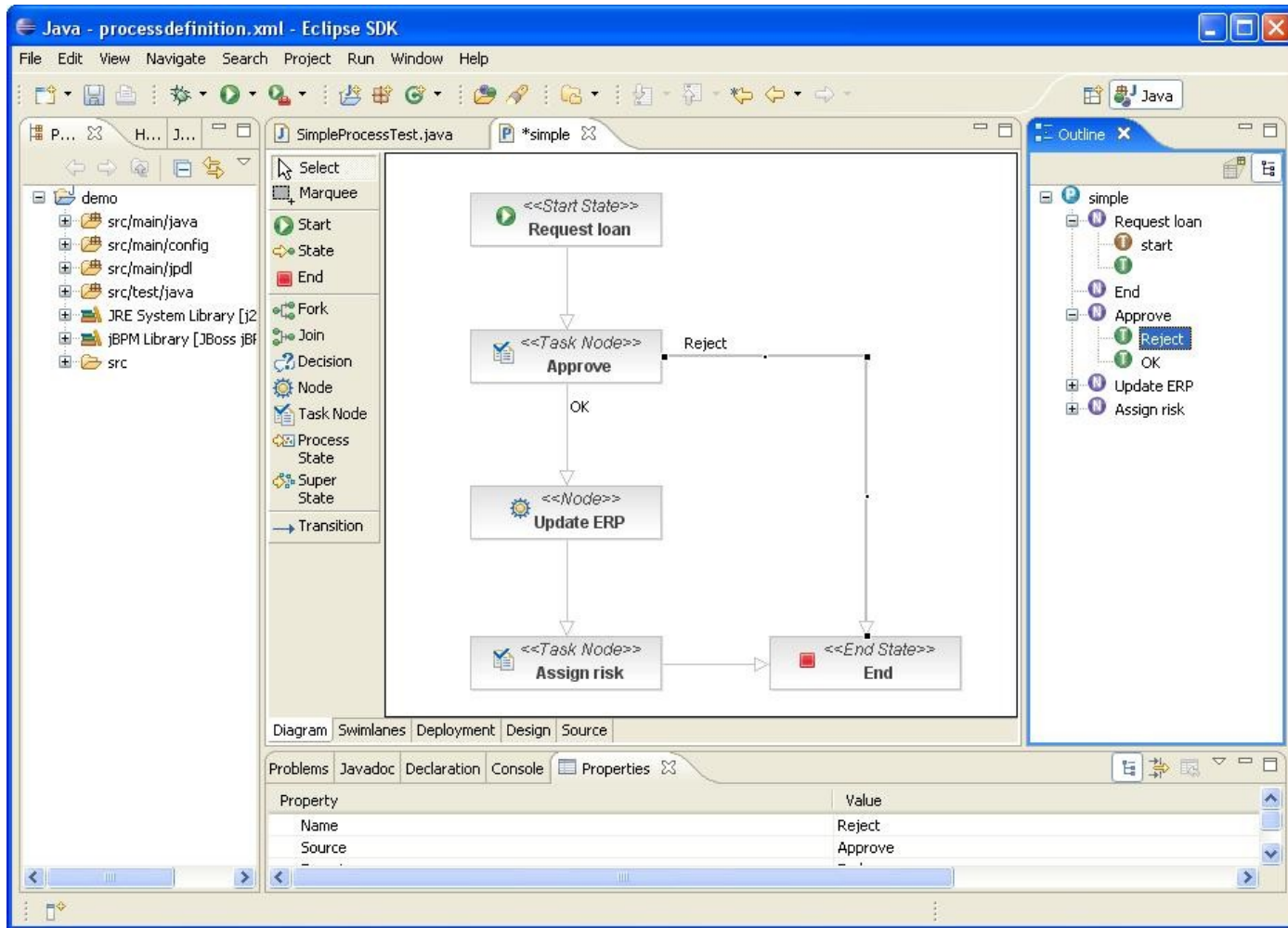
What does it do ?

- JBoss jBPM executes **long running processes** that can be visualized **graphically**
- JBoss jBPM enables automation of business processes that **coordinate** between **people, applications and services**
- Designed for the **mass market** and support **enterprise scale** applications
- JBoss jBPM bring process automation to a **much wider set of business problems** ranging from embedded workflow to enterprise business process orchestration and BPM.

Typical Components



Typical Components: Designer



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Flavour 1: BPEL

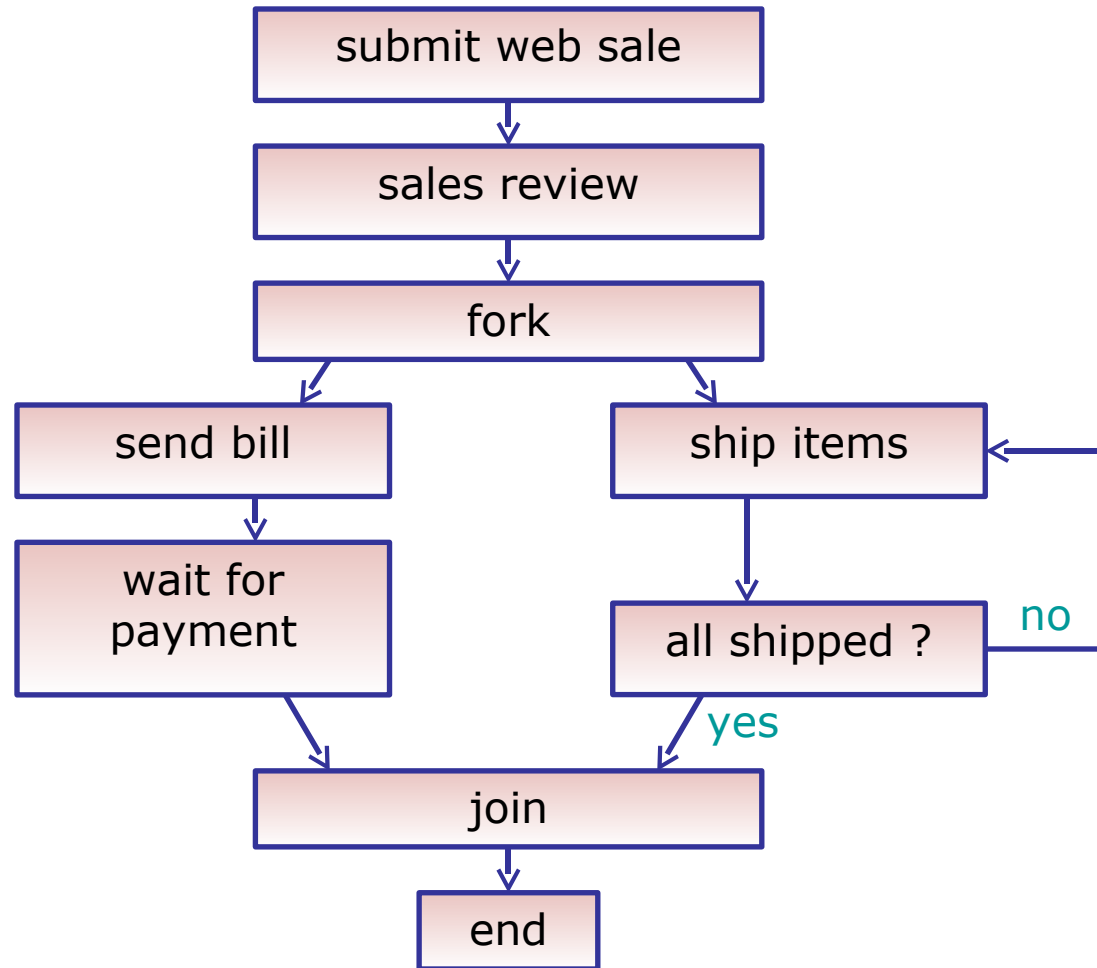
- Service Orchestration
- **Broadly accepted standard**
- **Well conceived specification**
 - Quite complete
 - Does 1 thing well
- **Web services environment**

Flavour 2: jPDL

- **jBPM Process Definition Language**
- **Graphical editor for the business user**
- **Java programming environment for the developer**
- **Ideal for Business Process Management (BPM)**
 - Easy automation of business processes
 - Task management
 - Integration
 - Business Intelligence

jPDL Advantages

- **Link between**
 - Business User
 - Developer
- **Graphical diagram for business users**
- **Process is basis for implementation**
- **Diagram is shared**



More Flavours

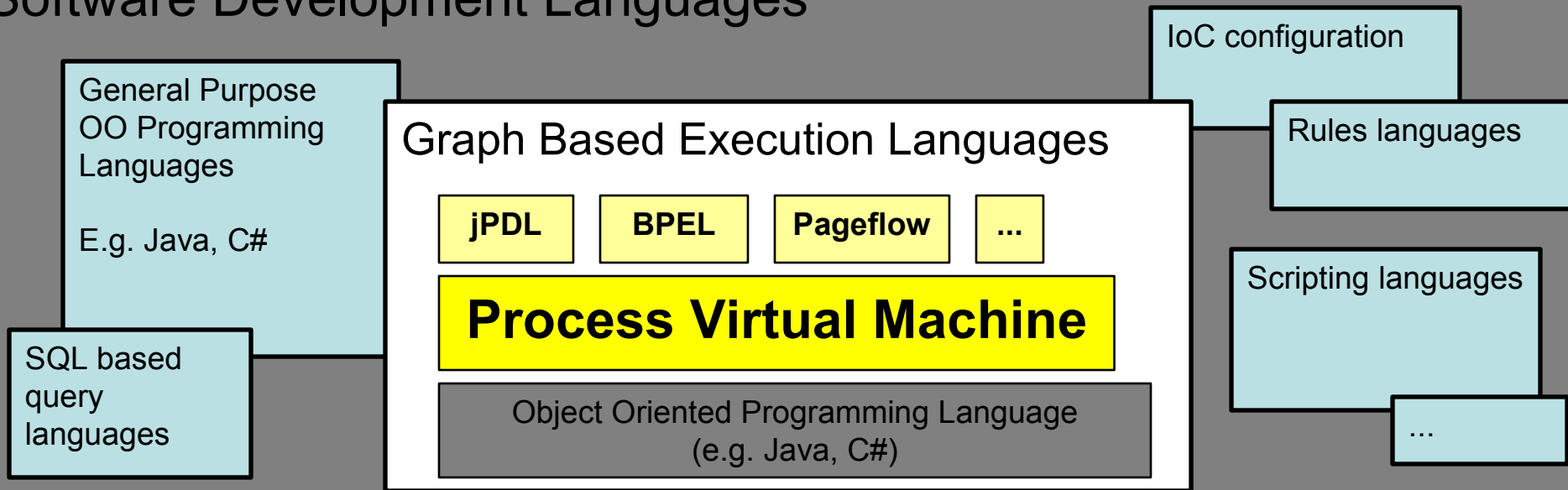
- **JBoss SEAM Pageflow**
- **But also on our wishlist**
 - Visual programming
 - Easy concurrency
 - Limited but lowering the barrier
 - XPDL

JBoss jBPM

- **Collection of process languages**
- **Based on the same technology**

Process Virtual Machine

Software Development Languages



JBoss jBPM Product View

JBoss jBPM: Platform for Process Languages

jBPM jPDL



PVM

jBPM BPEL

<XML/>

PVM

...

PVM

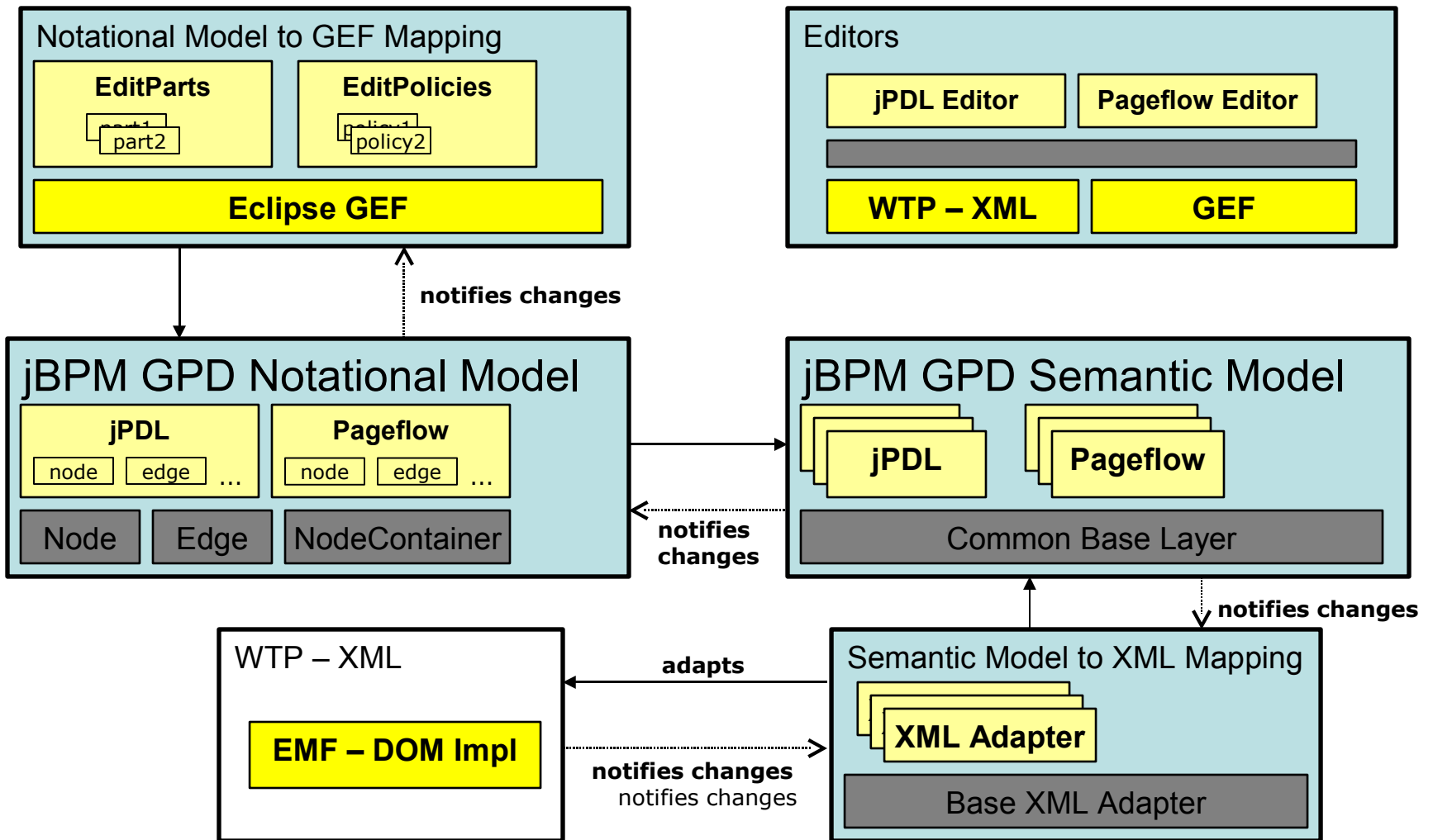
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jBPM Graphical Process Designer

- **Initially graphical support for JPDL**
 - Node pluggability
- **Based on Eclipse technology**
 - Eclipse plug-in
 - GEF
 - WTP – XML
 - No use of EMF/GMF (yet)
- **Support for Seam Pageflow**
- **Ultimately : Multiple language support**
 - BPEL
 - XPDL
 - BPMN
 - ⇒ JWT

GPD Architecture



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BPMN Reflections

- **Converging standard notation**
 - **Executable?**
 - Token concept
 - **Complexity**
 - **Compliance?**
- => Multiple profiles**

BPMN Profiles (example)

Expert Profile

Swimlanes

Message Flow

Artifacts

Intermediate Profile

Complex Activities

Complex Events

Gateways

Basic Profile

Basic Activities

Basic Events

Sequence Flow

Conclusion

- **JBoss jBPM is a platform for executing processes in multiple process languages**
- **JWT is a platform for graphically supporting development of processes in multiple process languages**
- **Natural match!**

