Java Workflow Toolbox (JWT)
Creation review

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Overview

- Purpose
- Description
- WE Logical Architecture
- WAM Logical Architecture
- Eclipse Touch points
- Extension Points
- Community Response
- Project Community
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JWT Purpose

- Provide build time and run-time tools to help develop processes
- Typical use cases will be:
  - Graphically design a process
  - Start/Stop a process/workflow engine
  - Deploy a process definition in an engine
  - Administer/monitor engine in order to debug a deployed process
- No particular focus on a specific engine implementation or standard (even if standards will be promoted): need for an independent process meta model definition
- No constrained graphic representation but BPMN will be targeted at first. Motivations are to be able to give to different user profiles different representation of the same workflow definition. E.g.: simplified view for business oriented users.
JWT Description

- JWT is divided in two related parts:
  - Workflow Editor (WE)
    - Graphical representation of process definition
    - Export of process definitions to XML
    - Import of valid XML process definition and its graphical representation
  - Workflow engine Administration and Monitoring (WAM)
    - Process Definition Management (Repository & Package)
    - Process Execution Management (Instantiation, Monitoring…)
    - Process Runtime Resources Mapping (Application & Users)
    - Worklist Management & out of the box “Desktop BPM” features
WE Logical Architecture
WAM Logical Architecture

- Workflow Engine Model
  - Worklist API
  - Application API
  - User API
  - Process API
  - Packages & Repository API

- Workflow Administration & Monitoring
  - Worklist Mgmt Plugin
  - Application Mapping Plugin
  - User Mapping Plugin
  - Process Monitoring Plugin
  - Process Instanciation Plugin
  - Package Loader Plugin
  - Repository Mgmt Plugin

- Workflow Editor

- Workflow Engine
- EMF / GMF
- Eclipse Callisto Workbench
Eclipse Touch points

- WST (Web Standard Tools)
- GEF (Graphical Editing Framework)
- EMF (Eclipse Modeling Framework) for the underlaying meta-model
- STP (SOA Tools platform)
- Validation frameworks (like EMF Validation Framework or Recipe from GMT/OAW)
- Eclipse Callisto and Upcoming Eclipse Europa
Extension Points

- **WE**
  - Editor plugin
  - Grammar plugin
  - Application tools plugin

- **WAM**
  - One plugin for each API
    - Workflow Management
    - Application Mapping
    - User Mapping
    - Process Monitoring & Instanciation
    - Packager Loader & Repository Management
  - Server definition plugin
Community Response

- Proposal one year old - because of
  - Change of project leader at Open Wide
  - New sponsoring organisations, partners and funding

- Now:
  - AgilPro contribution from the University of Augsburg, with:
    - Modelling tool
    - Desktop application for local simulation
    - Generic adapters for several proprietary applications
  - Funding and expected contributions from European SOA / SCA-oriented research project SCOrWare
  - Promising ties with STP / BPMN and Intalio, Bull (creator of Bonita and Orchestra BPM Open Source solutions), Obeo (Open Source MDA & DSL technologies), jBoss BPM…
Project Community

- Marc Dutoo (Project Lead) - Open Wide, FR
- Florian Lautenbacher (Project Lead) – University of Augsburg, DE
- Miguel Valdez (Technology Advisor) – Bull, FR
- Alain Boulze (Market Advisor) – INRIA / ObjectWeb, FR
- Fabrice Dewasmes (Vision Advisor) – Pragma Consult, FR
- Günther Palfinger (Technical Advisor) – eMundo, DE

- Koen Aers – JBoss corp.
- Roman Zulauf – Object Engineering GmbH
- Pardeep Sood – Independent Consultant
- Surrendra Reddy – Optena Corp.
- Shanghai JiaoTong University – School of Software
- Guennadi V. Vanine – Independent Consultant
- BeiJing ChiPu - Network Technic limited
Roadmap

- Core meta-model
- Grammar pluggability
- Graphical layer pluggability
- XPDL grammar integration
- BPMN representation int.
- Engine Pluggability
- Sample Engine integration

Timeline:
- WE M1
- WE M2
- WAM M1
- WAM M2

Year 2007