

# Java Workflow Tooling (JWT) 1.3.0

Kepler Review Release Review

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### Overview



- About JWT
- Release 1.3
- Communication

## **About JWT - Overview**



Java Workflow Tooling (JWT) aims at providing a complete Business Process Management (BPM) and workflow tooling platform

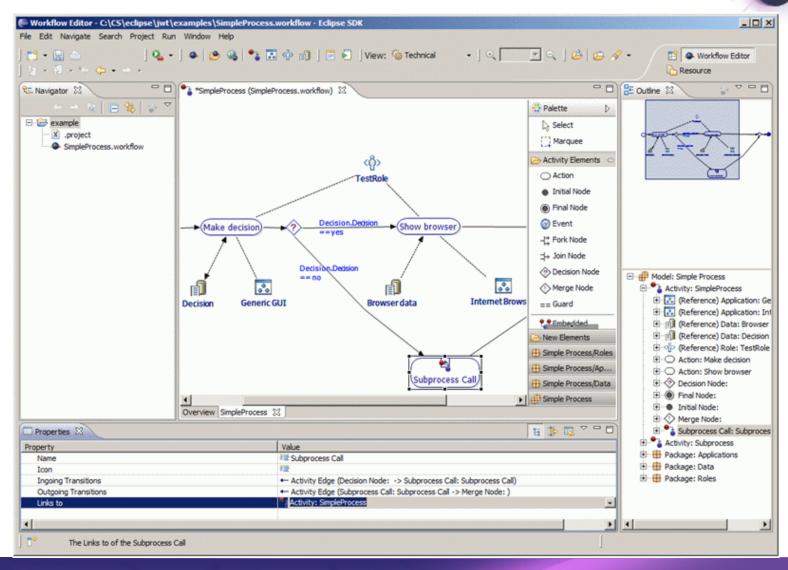
A special focus lies on a unified approach to BPM design, allowing to bridge the gap between different process representations, standards, engines and deployment environments (platforms, information systems, SOA)

#### Goals

- Support for workflow and business process modeling, deployment, execution and monitoring inside Eclipse
- Provide a complete, flexible, interoperable and usable BPM toolkit
- Set of generic and extensible plugins and APIs
- Extensions allowing support for specific business representations, process language formats, process engines, service platforms, etc.
- Targeting and supporting SOA in close collaboration with Eclipse SOA projects: BPMN, SCA, Mangrove and others

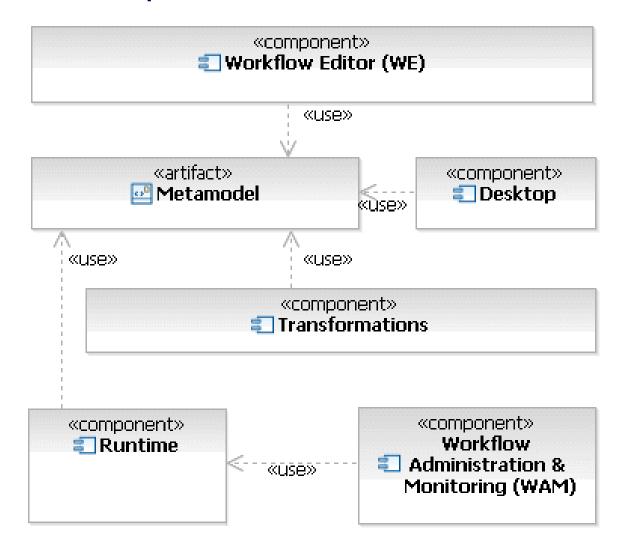
### **JWT Screenshot**





## About JWT - Components of JWT





#### **About JWT - Status**



- JWT is a mature project in Eclipse SOA, already part of the yearly release train since Galileo
- The usage of JWT (Workflow Editor, Transformations, ...) is well documented in its Wiki
- Several pages on the wiki provide developer documentation. All extension possibilities by external plugins are documented there, and have examples that are available at least in the SVN.
- Ongoing development and active mailing list

## **About JWT - Maturity**



- The build process is automatized for continuous integration
- Since Galileo, JWT is part of the yearly release train
- Well-documented in Wiki
- Several example plugins are available that demonstrate the usage
- JWT is used in development and production
  - It has been integrated in several third-party solutions like e.g. AgilPro or OW2 Scarbo. OW2 Scarbo 1.2 has been released in November 2011 and is used in production by ANCV in Paris, France.
  - Mailing list exchanges show new products being built on JWT, by companies like Mastek LTD, India and research work being done by labs like the German University in Cairo, Egypt.

## Release 1.3 – Features & BugFixes



- Support for Eclipse 4.3
  - [Bug 377748] JWT and Eclipse 4
- SVG Export (based on GMF)
  - [Bug 327563] Export workflow to SVG image
- BPMN View
  - [Bug 388127] A BPMN View for the workflow editor
- •We focused on patching bugs reported by the community outside the core development team.
  - Bugs...
- ■Doc & Howtos have also been enriched in the process, see e.g. http://wiki.eclipse.org/JWT\_Metamodel\_Extension#Aspects\_Howto

### Release 1.3 – APIs



- The code conforms to the Eclipse Quality.
- The code has been implemented by committers of the project.
- The API has been officially declared (using PDE tooling) in prior to this release.
- Several examples have been tested and JUnit tests exist.
- Build (includes unit testing) has been fully automated in CBI and is easily repeatable.

## Release 1.3 – Non-Code Aspects

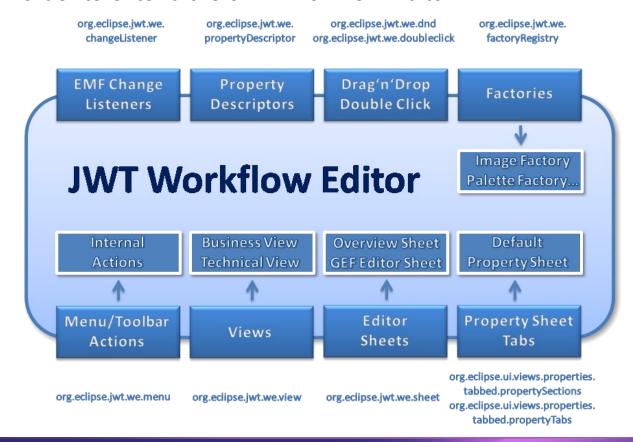


- Documentation is up to date and constantly improved, mailing lists and bugzilla are constantly used, news are written on the website.
- Until this date, two articles about JWT have been published in the german "Eclipse Magazin"
- Several presentations about or involving JWT have been given
  - Eclipse Summit Europe 07, EclipseCon08, Open World Forum 2008, EclipseCon09, Solutions Linux 2009, Eclipse Forum Europe 2009, Eclipse Europe Summit 2009 and EclipseCon10
- Eclipse DemoCamp Indigo 2011 in Grenoble, 2011 June 28
  - « From design & development to live collaboration in the SOA Space, using Eclipse Mangrove and EasySOA Core » by Alain Boulze & Marc Dutoo, see http://wiki.eclipse.org/Eclipse\_DemoCamps\_Indigo\_2011/Grenoble

### Release 1.3 – Architectural issues



 Several extension points available that are already used by plugins in order to extend the JWT Workflow Editor.



## Release 1.3 – Tool usability



- JWT enables a user to model his/her processes and workflows and use these models not only for documentation, but also for execution.
- The model can be used to generate code in different languages (such as XPDL)
- The model can be transformed to other models (e.g. SOA BPMN & Mangrove).
- It provides a lot of extension points where others can build on it and extend several parts of the editor, see http://wiki.eclipse.org/JWT\_Extensions
- If necessary, the meta-model can be adapted to the needs of each user through Aspect Oriented Modeling.

## Release 1.3 – End-of-Life



There are no features that are end-of-life'd in this release.

## Release 1.3 – Bugzilla



Current bug status

Component

Version 0.3.0 0.4.0 0.5.0 0.6.0 0.7.0 1.0.0 1.1.0 unspecified Total Releng Website Desktop 2 Metamodel Transformations 10 Wam WE 17 Yearly Release Total 11 41

There are currently 55 non-critical bugs / feature requests which have been moved to the next release

Version

	1.1.0	1.2.0	Total
Desktop	1		1
Metamodel	<u>5</u>		<u>5</u>
Releng	<u>3</u>		<u>3</u>
Transformations	8		8
WE	28	9	<u>37</u>
Wam	<u>1</u>		1
Total	<u>46</u>	9	<u>55</u>

Component

### **Standards**



The relationship to existing standards has been achieved by the following:

- Addition of a UML Activity diagram view
- Addition of a EPC model view
- Transformation to the Eclipse STP BPMN modeler
- Codegeneration of XPDL possible
- Addition of a BPMN Activity diagram view
- Existing transformation to the SOA Mangrove model (formerly STP IM), which aims to bridge different standard oriented tools within the STP project, like BPMN and SCA editors or BPEL.

## **UI** Usability



- The Workflow Editor supported originally several languages such as English, German and French. For the latest releases we collaborated with Babel so that much more languages now exist.
- Several wizards exist to ease the usage of the Workflow Editor.
- All transformations are easily selectable via Import and Export menus thanks to the transformation base.
- The Eclipse User Interface Guidelines have been followed.
- UI usability has been improved since last release but a more in depth UI walkthrough is still planned for one of the next releases.

### Communities



- Active bugzilla usage by the committers and others (extenders).
- Many discussions on the mailing list, inside JWT as well as with partners from the SOA projects (Mangrove, BPMN, etc.).
- Discussions with several companies (Bull, jBoss, EasiFab) have produced collaboration (ex. BPM model comparison, FactoryRegistry) and keep feeding JWT's requirements.
- Solutions built on JWT include AgilPro and OW2 Scarbo (Open Source).
   Mailing list exchanges show new products being built on JWT.
- Coordination with several OW2 projects such as Bonita, Orchestra, FraSCAti, Spagic, Scarbo.
- The University of Augsburg is an official Eclipse Foundation Member

### IP Issues



- The code has been committed by individuals who are either committers of the project themselves or their foundation. Code contributions from others have undergone a CQ.
- The contribution questionaires for all components have been completed.
- The legal information has been inserted into the source code as described in the Eclipse IP Policy.
- There are no outstanding CQs and the IP log has been committed and approved for this release.

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## Project plan and IP log



- The current project plan can be found at
  - http://www.eclipse.org/projects/project-plan.php?projectid=technology.jwt
- The IP log can be found at http://www.eclipse.org/projects/ip\_log.php?projectid=soa.jwt
- Currently no open IP requests

### Communication



### Project Leads

- Marc Dutoo, Open Wide
- Christian Saad, Augsburg University (release engineer)
- Ahmed Samir Wafa, Augsburg University (release engineer)

#### Communication Channel

JWT Mailing List: jwt-dev@eclipse.org