Creation Review

Eclipse IAM: Eclipse Integration for Apache Maven

Carlos Sanchez

Overview

- IAM aims to bring into Eclipse integration with the popular Apache Maven tool

- IAM aims to make Apache Maven usage easier from the Eclipse IDE

    - By providing a Maven graphical interface for command-line Maven functionality

    - By integrating Maven operations into the Eclipse IDE (new project, classpath usage,...)

    - By allowing extensions that can take advantage of Maven functionalities

- Initial code contribution consists of the existing codebase of **q4e,** an Apache Maven plugin for Eclipse enables the use Maven 2 from the Eclipse IDE.

Scope

- IAM will develop a series of plugins for using Apache Maven functionalities from the Eclipse IDE

- IAM will integrate with
  - Apache Maven build management tool
  - Artifact repository management tools
  - Other tools that integrate with Apache Maven

Collaborations within Eclipse

- JDT
  - Providing a classpath container synchronized with Maven projects
- New project wizard
  - Use of Maven archetypes to create new projects from Eclipse
- WTP
  - Integration for web-enabled Maven projects
- Buckminster
  - Buckminster will be able to leverage the Maven libraries
- Equinox p2
  - Integration between Maven and P2 repositories
- Team support
  - Reuse source control management information in the Maven poms

Participants

Abel Muiño, Berggi

Carlos Sanchez, Exist Global

Erle Mantos, Exist Global

Jake Pezaro

Michael Poindexter, Qumu

Philip Dodds, Exist Global

Brett Porter, Exist Global

Allan Ramirez, Exist Global

Korina Cordero, Exist Global

Bios I

- ## Abel Muiño

  - Abel Muiño is the Architect Manager at Berggi and has previous experience in Eclipse-Maven integration as the author of Candy for Appfuse (maven + eclipse + appfuse integration). He is the project lead for the initial code contribution (q4e) and is responsible, among other things, for its extensibility and WTP integration.

- ## Carlos Sanchez

  - Carlos Sanchez is a Director at Exist Global. He has been involved in the Open Source for several years at the Apache Software Foundation where he is an Apache Maven PMC since 2004. He is also a committer for Spring Security and co-author of the book "Better Builds with Maven". Carlos was the project lead of q4e in its early inception and is responsible for many of the core features of q4e.

- ## Erle Czar Mantos

  - Erle Czar Mantos is a Software Developer for Exist Global. For the past few years, he has been engaged in the development of device drivers and networking applications in C++. He has participated in q4e since its infancy and is responsible for many of the core features on it.

Bios II

- **Jake Pezaro**

  - Jake Pezaro has been a Java developer for the last 8 years, working in various industries including consulting, finance and gaming. He has contributed and is actively maintaining the maven dependency analysis tool in q4e.

- **Michael Poindexter**

  - Michael Poindexter is currently working for Qumu Inc. For the past 6 years, he has been focused pretty much exclusively on server side Java development with various companies. He is a q4e committer and has made important contributions to the Maven Incremental Builder and Artifact Search as well as numerous improvements to the existing q4e codebase.

- **Allan Ramirez**

  - Allan Ramirez is a Software Developer for Exist Global. He has contributed the maven profiles view and has many fixes for several issues in q4e.

- **Korina Cordero**

  - Korina Cordero is a Software Developer for Exist Global. She has been into software development for the past 8 years, developing element management systems and other applications. She is actively working on the POM editor of q4e.

Bios III

- ## Brett Porter

  - Brett Porter is a Senior Director for Product Development at Exist Global and was one of the co-founders of DevZuz and co-author of the book "Better Builds with Maven". He is a member of the Apache Software Foundation and is a PMC member of several Apache projects including Apache Maven since 2003.

- ## Philip Dodds

  - Philip Dodds is the CTO of Exist Global, a PMC member of Apache ServiceMix. Previously he was the VP of Technology and Architecture at GoldenSource and co-founder of Unity Systems. He wrote the earliest incarnation of what would later become q4e.

Project mentors

- Ed Merks, IBM
  - EMF project
- Thomas Watson, IBM
  - Equinox project

Community interest I

- Q for Eclipse has been publicly available for the last 10 months
- 6 major releases in 8 months
- 70000+ visits
- 220000+ pageviews
- 3000+ messages in the developer mailing list
- 600+ messages in the user mailing list
- Interested projects have folded into Q for Eclipse and their authors became active committers
    - Candy for Appfuse
    - Maven Dependency Browser

Community interest II

- Equinox (IBM): Jeff McAffer, Pascal Rapicault
- IONA: Oisin Hurley
    - Actively evaluated by Irene Levina
- Apache Cocoon: Grzegorz Kossakowsky
- Apache Archiva: Joakim Erdfelt
- University of A Coruña, Spain: Fernando Bellas, PhD
- CALGB: Robert Dale
- Scala: Josh Suereth, David Bernard
- Qumu, Inc
- Exists Global, Brett Porter
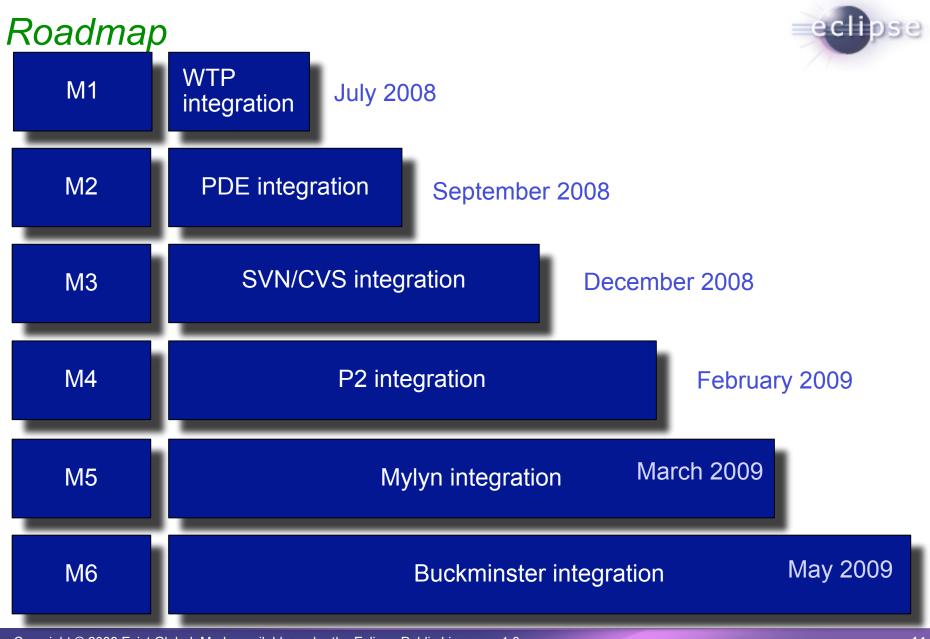
Code Contribution

- IAM will be provisioned with the sources from Q for Eclipse (q4e).

  - Most participants are also committers in q4e and have developed a sound background in Maven and Eclipse integration during the 10 months q4e has been live.

- Q for Eclipse is an open source development under EPL license hosted on Google Code.

  - Currently, it is focused on supporting JDT integration and the maven developer.

  - WTP support for web projects is already provided.

  - EPL header is included in every file and listed on the home page.

- Q for Eclipse is based on Eclipse 3.3

  - WTP support is compatible with Eclipse 3.3 / WTP 2.x and Eclipse 3.4 / WTP 3.0 milestones

- The team is actively seeking cooperation, reuse and contributions from other plug-in authors in the Maven-Eclipse ecosystem (APTEditor, M2E…).

Why make IAM an eclipse project?

- Fills the long-standing gap between the *de-facto* standards for development and project management, building and comprehension

- Has momentum:
  - Almost as much activity as JDT with 1/3 of the developers.
  - Steady conversion of Users → Contributors → Committers

- Has innovation:
  - WTP integration presented at EclipseCON
  - Analysis view
  - Event-based maven processing
  - Use Eclipse to break Maven limits

- Is inclusive:
  - Community driven, Enterprise oriented
  - Leading the effort for reducing the distance between IAM and M2E

- Is focused on Eclipse
  - Extension points + Exemplary Implementation as a rule, not exception
  - Project materialization with Buckminster

Roadmap

M1	WTP integration	July 2008
M2	PDE integration	September 2008
M3	SVN/CVS integration	December 2008
M4	P2 integration	February 2009
M5	Mylyn integration	March 2009
M6	Buckminster integration	May 2009