

Eclipse RT Creation Review

Jeff McAffer, Code 9 (co-lead)

Jochen Krause, Innoopract (co-lead)

Agenda

- Proposal Overview
 - Mission
 - Scope
 - Projects
 - Timeline
 - PMC
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- Charter Appendix

Proposal Overview

- Eclipse has been evolving a runtime community for some time
 - ◆ RCP, Equinox, RAP, eRCP, ECF, EMF, ...
 - ◆ Whole slew of new projects (Swordfish, Riena, EclipseLink)
- Eclipse runtime efforts suffer from the view that Eclipse == Tools
- Create a new project focused on fostering, promoting and housing such work at Eclipse

Mission

- Foster, promote and house runtime efforts
- Common goal of providing a uniform component model across a wide variety of computing environments
- Equinox framework and OSGi form the basis
- Target "clients" and "servers" across embedded devices, desktops, and enterprise systems
- Equinox vision of a consistent programming and component model across these environments

Scope

- Developing and delivering the OSGi framework implementation used for all of Eclipse.
- Implementation of all aspects of the OSGi specification (including but not limited to the Enterprise Expert Group, Mobile Expert Group and Vehicle Expert Group work).
- Investigation and research related to future versions of OSGi specifications and related runtime issues.
- Implementation of key framework services and extensions needed for running Eclipse (e.g., the Eclipse Adaptor, Extension registry) and deemed generally useful to systems using Equinox.
- All implementations must be based on OSGi and run on Equinox.
- The implementation of generally applicable runtime standards (e.g., OASIS, JCP).
- Incidental tooling efforts to enable or facilitate particular runtime functions in conjunction with (e.g., as a component of) a sub-project.

RT Projects

- ECF
- EclipseLink
- Equinox
- RAP
- Riena
- SwordFish
- And, of course, more great projects in future (per the standard Creation Review process)

Impacts

- Listed projects move from existing top-level project to new RT project
- All moving projects are in Technology or Eclipse TLP
- Both PMCs have agreed to these moves

Timeline

- Creation review
 - ◆ This presentation
- Board Approval
 - ◆ Granted Feb 2008
- Provisioning
 - ◆ To follow immediately after creation review
- Migration
 - ◆ PMC: At the convenience of the sub-projects
 - ◆ Repositories/infrastructure: Some will move immediately, others will wait until after Ganymede to minimize disruption.

PMC

- Jeff McAffer (Code 9) : co-lead
- Jochen Krause (Innoopract) : co-lead
- Ricco Deutscher (Sopera)
- Douglas Clarke (Oracle)
- Thomas Watson (IBM)

Community

- Good cross-section of mature and incubating projects moving
- Broad corporate involvement (PMC has 5 different companies represented)
- No intention of moving all runtime related work
- Coincides with Foundation plans for developing the Equinox Community

RT Charter Appendix

- All content in the standard charter is sufficient for the RT project with the following exceptions

Overview

- Since the creation of the Eclipse Rich Client Platform (RCP) and the adoption of Equinox and OSGi in 2004, interest in and use of Eclipse technologies in runtime scenarios has been steadily increasing. Initially, the focus of these runtime efforts was on desktop or client technologies. The community has steadily found new and innovative uses for Equinox and the Eclipse platform in areas such as [devices](#), [rich internet applications](#) and [servers](#).
- Eclipse RT is an open source collaborative software development project dedicated to supporting and enhancing these efforts and providing a generic, extensible, standards-based runtime platform.
- This document describes the composition and organization of the project, roles and responsibilities of the participants, and development process for the project.

Mission

- Eclipse RT is designed to foster, promote and house runtime efforts in the Eclipse community. These efforts strive towards the common goal of providing a uniform component model across a wide variety of computing environments. The Equinox framework and OSGi form the basis of this infrastructure.
- Eclipse RT projects target "clients" and "servers" across embedded devices, desktops, and enterprise systems, and provide those intermediate software services which enable applications to be more easily and concisely constructed across these environments. This supports and extends the Equinox vision of a consistent programming and component model where developers create application domain code that runs on a variety of platforms.
- By providing a consistent symmetric architecture, Eclipse RT technology enables developers to focus on the business problem at hand and still have many system architecture options available at deployment time.

Scope

- Concretely, Eclipse RT projects supply the Equinox implementation of the OSGi core framework specification and a set of bundles that implement additional services and other infrastructure for running applications on the Equinox framework and OSGi-based systems. The nature of this work is scoped as follows:
- Developing and delivering the OSGi framework implementation used for all of Eclipse.
- Implementation of all aspects of the OSGi specification (including but not limited to the Enterprise Expert Group, Mobile Expert Group and Vehicle Expert Group work).
- Investigation and research related to future versions of OSGi specifications and related runtime issues.
- Implementation of key framework services and extensions needed for running Eclipse (e.g., the Eclipse Adaptor, Extension registry) and deemed generally useful to systems using Equinox.
- All implementations must be based on OSGi and run on Equinox.
- The implementation of generally applicable runtime standards (e.g., OASIS, JCP).
- Incidental tooling efforts to enable or facilitate particular runtime functions in conjunction with (e.g., as a component of) a sub-project.

Out of Scope

- Major tooling efforts
- Industry-specific vertical technologies