



Equinox Aspects – Graduation Review

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Outline

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Equinox Aspects Overview

- Equinox Aspects is an addition to the Equinox OSGi runtime that allows people to use Aspect-Oriented Programming using AspectJ and AJDT together with OSGi.
- It includes
 - ◆ a base framework hook to allow bytecode weaving at classloading time and caching for those weavings.
 - ◆ A weaving implementation for AspectJ aspects
 - ◆ A caching implementation for general JVMs
 - ◆ A special caching implementation for IBM J9 VMs



What is graduated

- The primary framework hook
 - ◆ `org.eclipse.equinox.weaving.hook`
- The weaver for AspectJ
 - ◆ `org.eclipse.equinox.weaving.aspectj`
- The caching for general JVMs
 - ◆ `org.eclipse.equinox.weaving.caching`
- The caching for IBM J9 VMs
 - ◆ `org.eclipse.equinox.weaving.caching.j9`



Where

- Once graduated, the development will take place in the existing Equinox Bundles component of the Equinox project
- Equinox Aspects will get its own component in Bugzilla



Clients

- Equinox Aspects is already used by the latest releases of AJDT (Eclipse project) and Scala IDE for Eclipse.
 - ◆ To integrate their language features tightly with JDT
- Groovy IDE interested in this as well
- Allianz Business System
- User feedback shows other people already uses Equinox Aspects



Community

- The size of these components is fairly small
 - ◆ Since the real aspect weaving is re-used from AspectJ
- There is one active committer, one inactive, and one former committer
- Many discussions with and contributions from AJDT team



Open Source Operation

- Equinox Aspects development has been ongoing in the Equinox Incubator component of the Eclipse Project Incubator.
- Communication taken place via:
 - ◆ Bugzilla ([aspects] prefix)
 - ◆ The equinox-dev mailing lists
- Transparent development and planning aligned with Equinox plan
 - ◆ http://wiki.eclipse.org/Equinox_Aspects_Plan
 - ◆ Including milestone builds during the 3.5 release cycle



API

- There is no formal API proposed for graduation by the components
 - ◆ They work as extenders and enhance other bundles on the fly
- However there is API between Equinox Aspects components that could be used by others, but on their own risk
 - ◆ Interesting additions possible to support general bytecode weaving for Spring-DM, EclipseLink, or other use cases
 - ◆ Based on OSGi service mechanism



IP

- The developer understands and adheres to the Eclipse Development Process, committer responsibilities and due diligence rules, as well as the Eclipse IP Policy.
- All contributions are marked with the keyword “contributed” in bugzilla
- IP Log for graduation:
<http://www.eclipse.org/equinox/incubator/aspects/documents/EquinoxAspectsGraduationIPlog.html>



Communication Channel

- The communication channel used is the equinox-dev mailing list:

<http://dev.eclipse.org/mhonarc/lists/equinox-dev/maillist.html>



Future

- Galileo timeframe:
 - ◆ Deliver first release of Equinox Aspects bundles
- Post-Galileo timeframe:
 - ◆ More IDE support (refactoring, integration with AJDT)
 - ◆ More documentation and examples
 - ◆ Ease of use
 - ◆ Different weavers for different clients
 - e.g. Spring-LTW, EclipseLink