

AJDT 2.0 Release Review

The Eclipse logo features the word "eclipse" in a white, lowercase, sans-serif font. The letter "i" is replaced by a dark, circular sphere with a bright white highlight on its upper-left edge, giving it a three-dimensional appearance. Three horizontal white lines pass behind the sphere, extending across the width of the word. The background is a dark blue gradient with a subtle radial glow behind the sphere.

eclipse

Planned Review Date: June 24, 2009

Communication Channel: ajdt-dev@eclipse.org, eclipse.technology.ajdt

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Introduction

- AJDT is the Eclipse tool support for the AspectJ language
- This release review is for 2.0

Terms

- Intertype Declaration (ITD)
 - AspectJ language construct that allows aspects to declare methods or fields in other classes
- Aspectpath
 - A set of classpath entries that designate prebuilt code whose aspects this project should be woven with
- Inpath
 - A set of classpath entries that designate prebuilt code that should be woven with this project's aspects

Features

- Better Intertype Declaration (ITD) support
 - Hyperlinking for ITDs (Bug 273334)
 - ITDs on inpath and aspectpath (Bug 271269)
 - Content assist for ITDs now hides ITDs that are not accessible (Bug 272547)

Features (cont.)

- Linked Source Folders now supported
 - Bug 253555 and Bug 275903

Features (cont.)

- Better Inpath and Aspectpath support
 - Can set individual elements inside a classpath container to be on the in/aspect path (Bug 273770)

Features (cont.)

- Weaving Service
 - Use Equinox Aspects to weave into JDT
 - Released as a separate feature so that it can be consumed separately
 - List of related bugs <http://tinyurl.com/rdywzl>

Features (cont.)

- New & Noteworthy available here:
 - <http://eclipse.org/ajdt/whatsnew200/>

Non-Code Aspects

- Documentation is up to date
- Many strings have been externalized
 - Not yet translated

APIs

- APIs are in a good state
- Weaving service
 - New for 2.0.0
 - Allows 3rd parties to weave in JDT
- AJProjectModelFacade class
 - New for 2.0.0
 - Allows other tools to have access to crosscutting model
- AspectJCorePreferences class
 - Existing since 1.5
 - Allows other tools to have access to aspectpath and inpath

Architectural Issues

- New versioning scheme introduced
 - Previously, AJDT 1.4 → Eclipse 3.2, AJDT 1.5 → Eclipse 3.3, AJDT 1.6 → Eclipse 3.4
 - Now, 2.0.0 will be applicable for both Eclipse 3.4 and 3.5
 - Use part of the version qualifier to distinguish between builds for each release. Eg:
 - 2.0.0_e34x200905101500 for 3.4 releases
 - 2.0.0_e35x200905101500 for 3.5 releases
 - Note- this scheme was borrowed from the Mylyn project

Architectural Issues (cont.)

- Weaving service is a new AJDT feature
 - relies on Equinox Aspects 1.0
 - can be used separately from AJDT core
 - Currently being consumed by external projects
 - must maintain compatibility

Architectural Issues (cont.)

- AJDT relies heavily on internals of JDT in order to be as integrated as possible.
 - The major differences between the 3.4 branch and 3.5 branch of AJDT are due to internal changes in JDT

Architectural Issues (cont.)

- AspectJ weaver and runtime
 - Distributed with AJDT
 - Can be used separately from AJDT core

Architectural Issues (cont.)

- Some areas in UI should be in core
 - See bugs 268110 and 268116
 - Consider refactoring in future releases

Tool Usability

- AJDT is mature and is being used to develop many large scale applications including AJDT itself.
- Many responsiveness and stability issues have been improved in this release and recent micro releases.
 - See bugs 249811, 261009, 271605, 27426 and others

End-of-Life

- Removal of the Crosscutting comparison view
 - Discussion on mailing list
 - Not being used
 - Incompatible with changes to the project model
 - These changes were required for drastic performances improvements and reductions in memory usage

Bugzilla

- Bugs closed for this release (52 bugs):
 - <http://tinyurl.com/qc4ymf>
- Outstanding bugs for 2.0.0 and onward (53 bugs):
 - <http://tinyurl.com/ojeqja>
- Bug closed since last release review in April '08 (248 bugs):
 - <http://tinyurl.com/mnvhr4>
- New, unresolved bugs since last release review (71 bugs):
 - <http://tinyurl.com/ko6bp6>
- All open bugs in AJDT (115):
 - <http://tinyurl.com/luyfj6>

Standards

- AJDT runs on J2SE 1.4, 5, 6, and 7.
- Version 2.0 requires Eclipse 3.4 or 3.5
 - Separate update sites for 3.4 related artifacts and 3.5 related artifacts
 - Content will be similar except for internal dependencies on JDT
 - Use 34x and 35x in qualifier to specify target version of Eclipse

UI Usability

- No UI review for this release. A review can be found here:
 - http://www.eclipse.org/ajdt/accessibility1_3.html
- All issues from this review have been resolved.
- Where possible and appropriate, AJDT uses JDT as a guidance for UI

Schedule

- No delays expected for final release
 - to coincide with Galileo release

Communities

- Continuing to foster active community:
 - Regular monitoring of AJDT newsgroup, AspectJ/AJDT users/dev mailing lists, and Bugzilla
 - Heavily used by Spring – we regularly monitor the Spring AOP related forums

IP Log

- IP process followed
- Available at:
 - http://www.eclipse.org/projects/ip_log.php?projectid=tools.ajdt

IP Issues

- None.

Project Plan

- Future releases:
 - Continued focus on Intertype Declaration and Load Time Weaving support
 - AspectJ refactoring support
- Documented at
 - <http://www.eclipse.org/projects/project-plan.php?projectid=tools.ajdt>

Release Review Version

- These slides are based on the following version of the Release Review document:
 - http://wiki.eclipse.org/Development_Resources/HOWTO/Release_Reviews
- And the following template:
 - <http://wiki.eclipse.org/images/4/4a/ReleaseReview20081211.zip>