AJDT 2.0 Release Review

Planned Review Date: June 24, 2009
Communcation 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:
- 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:
IP Issues

- None.
Project Plan

Future releases:

- Continued focus on Intertype Declaration and Load Time Weaving support
- AspectJ refactoring support

Documented at

Release Review Version

- These slides are based on the following version of the Release Review document:


- And the following template: