AJDT 2.2.0 Release Review

Planned Review Date: XXX

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 2.2.0

Terms

- Intertype Declaration (ITD)

  - AspectJ language construct that allows aspects to declare methods, fields, or cosntructors in other classes

- Intertype Inner type (ITIT)

  - AspectJ language construct that allows aspects to declare inner-types in other classes

Overview

- The focus of this release has been on AspectJ 1.7 support, and ensuring that Java 7 and AspectJ 1.7 programs are compatible within the AJDT tooling.

Features (summary)

- Refactoring enhancements

- ITIT support

- Search and indexing improvements

Features (Refactoring enhancements)

- Pull Out refactoring (bug 316809)

- Rename refactoring in AJ files (Bugs 98078, 259044)

- Generics-aware push-in refactoring (Bug 321065)

Features (ITIT support)

- General ITIT support (Bug 316554)

- Reconciling (Bug 317086)

- Content assist (Bug 317087)

- Navigation (Bug 317089)

- Push in refactoring support (Bug 337772)

Features (Search and indexing)

- Searching and indexing of ITD target types (Bug 314291)

- Searching and indexing of references inside of pointcuts and declare (Bug 314297)

- Searching and indexing of type references in AspectJ-specific locations (Bug 322028)

AspectJ Features

- Notable changes that AJDT picks up by embedding the latest AspectJ (1.7.0):

  - Java 7 support

  - Improved memory usage in AJDT

  - ITIT support

  - More information in the AspectJ readmes:

    - http://www.eclipse.org/aspectj/doc/released/README-170.html
    - http://www.eclipse.org/aspectj/doc/released/README-1612.html
    - http://www.eclipse.org/aspectj/doc/released/README-1611.html
    - http://www.eclipse.org/aspectj/doc/released/README-1610.html

Non-Code Aspects

- ## Documentation is up to date

  - Developer documentation has been moved to the Eclipse wiki

- ## Many strings have been externalized

  - Not yet translated

APIs

- APIs are in a good state

- No new APIs introduced since 2.0.0

- All existing APIs are unchanged and backwards compatible

Architectural Issues

- AJDT relies heavily on internals of JDT in order to be as integrated as possible with Java language tooling.

  - accesses to internal JDT classes and APIs

  - use Equinox Weaving to weave into JDT code that is otherwise inaccessible

- Weaving and internal access are done in a stable way

  - thoroughly tested

  - same bundles can be used against 3.7.x JDT and 3.8.x JDT

Architectural Issues (cont.)

- AspectJ weaver and runtime

  - Distributed with AJDT

  - Can be used separately from AJDT

- Equinox Weaving

  - Distributed with AJDT

  - Can be used separately from AJDT

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.

End-of-Life

- No features have been end-of-life'd in this release.

Bugzilla

- Bugs closed since last release review (2.1.1) (98 bugs)

- Bugs closed since previous release (25 bugs)

- All open bugs in AJDT (141 bugs)

- New, unresolved bugs since last release review (30 bugs)

Standards

- AJDT runs on J2SE 5, 6, and 7

- Version 2.2.0 requires Eclipse 3.7, 3.8, or 4.2

  - single update site that targets all of these versions

UI Usability

- No UI review for this release. Most recent 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

    - Refactoring wizards
    - Aspect and In path pages

Schedule

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

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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 and STS related forums

IP Log

- IP process followed

- Available at:

  - http://www.eclipse.org/projects/ip_log.php?projectid=tools.ajdt

eclipse

IP Issues

- None.

Project Plan MUST UPDATE!!!

- Future releases:

- 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