Eclipse Project Status

Member's Meeting, Chicago
September 22, 2005

Automated Project Status Information

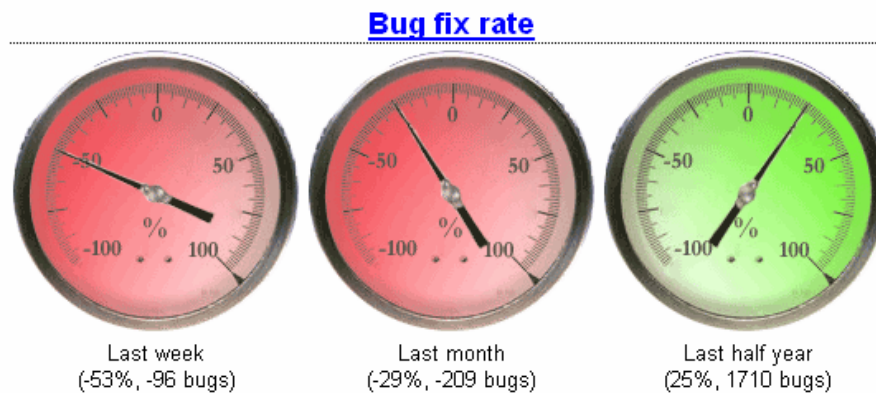- http://www.eclipse.org/org/processes/master-timeline.php
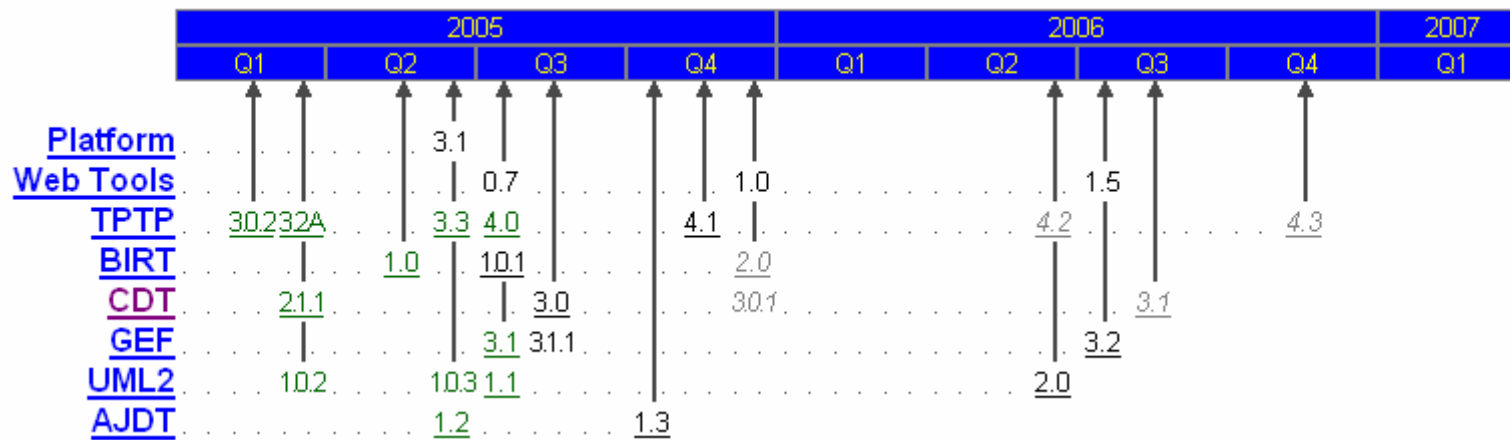
- Future: "four common links" on each project home page
- Future: auto-generated "project status" pages

Automated Project Status Information

- http://www.eclipse.org/org/processes/dashboard/index.html

Bug fix rate

Last week
(-53%, -96 bugs)

Last month
(-29%, -209 bugs)

Last half year
(25%, 1710 bugs)

- Future: data from newsgroups, mailing lists, CVS, downloads, releases, website hits, staleness, etc.
- Combined into a "project ranking"

Project Changes

- + DTP, DSDP, STP
- + BPEL Designer, Mobile Tools for Java, ALF, Buckminster, EMFT, JSR220-ORM, EJB30-ORM, Laszlo, Lepido (Tools for Cocoon), MDDi
- - Koi, OMELET, Stellation

- http://www.eclipse.org/proposals/main.html

Application Lifecycle Framework (ALF)

- Technology PMC
- **Status:** incubation
- **Next major release:** 0.2 December 30, 2005
- The goal of this release is to implement a typical ALF use scenario using the ALF POC platform to coordinate events and services for the various participating ALF partners.

Business Intelligence and Reporting (BIRT)

- BIRT PMC
- **Status:** mature
- **Next major release:** 2.0   December 2006
- 1. Improves the ease of report project development by introducing features such as templates, reusable styles/themes, and report component libraries.
  2. Increase the scalability of BIRT reports to handle large data volumes; large, multi-page reports; and persisted report documents
  3. Improve data access capability by adding an XML Open Data Access (ODA) driver.
  4. Improves the ease of use in chart builder and wizard.
  5. Improves scripting to provide more developer control over report generation and rendering. Add support of Java scripting in addition to JavaScript scripting.
  6. Improves user report viewing experience by providing rich report navigation, linking, and data export capability.
- **Project Plan:** http://www.eclipse.org/birt/index.php?page=project/project_plan_R1_0_1.html

C/C++ Development Tooling (CDT)

- Tools PMC
- **Status:** mature
- **Next major release:** ???

Data Tools Platform (DTP)

- DTP PMC
- **Status:** incubation
- **Next major release:** 0.5 1Q2006 (EclipseCon)
- The next release will actually be the first release of DTP, so all of the components described on the DTP site will be new. These include a rich set of EMF-based models for data tooling, a connection management framework, a Data Source explorer, and SQL tools for developers (editor, results view, execution plan, script history).
- **Project plan:** http://www.eclipse.org/datatools/pmc/dtp_highlevel_plan.html

Device Software Development Platform (DSDP)

- DSDP PMC
- **Status:** incubation
- No formal project plan yet. Everything is still in the design discussion phase. Lots of community input from all parties, especially in the lower level APIs.

Eclipse Modeling Framework (EMF)

- Tools PMC
- **Status:** mature
- **Next major release:** 2.2 July 7, 2005
  - Enhancing JET - Plans are underway to make the JET templates more powerful; for example, to investigate tag libraries in JET
  - Enhance EMF.Edit API and generator configurability
  - Improve XML Schema generation and round-tripping between Ecore and XSD
  - Changes to host on Eclipse 3.2 - make sure we use the latest Eclipse API; e.g. we need to migrate from using JDOM to using AST.
- **Project Plan:**
  http://eclipse.org/emf/docs.php?doc=http://eclipse.org/emf/docs/dev-plans/emf_project_plan_2.2.html

Graphical Modeling Framework (GMF)

- Technology PMC
- **Status:** incubation
- **Next major release:** 1.0 June 30, 2006
- A refactoring of contribution materials and initial prototype is underway. The project plans to release an initial functional milestone in November, with milestone builds corresponding with the platform's 3.2 plan. The first release will include graphical definition, mapping and generation functionality to target a provided runtime layer.
- **Project plan:** http://www.eclipse.org/gmf/requirements.html

JSR220-ORM

- Technology PMC
- **Status:** incubation
- **Next major release**: 1.0 November 28, 2005
- The major focus on the next release will be in the area of reverse engineering. Integration with the EMF.codegen and JDT code generation facilities to reverse engineer existing relational schema obtained through the DTP\RDB model to a source model. In addition, we plan to add support for XML mapping meta data.
- **Project Plan:** http://www.eclipse.org/jsr220orm/roadmap/roadmap81505.html

Platform Project

- Platform PMC
- **Status:** mature
- **Next major release:** 3.2 June 2006
- J2SE 6, library projects, logical models, more flexible workspaces, more windowing systems (Vista), more SWT widgets, bigger workspaces, more flexible debug platform, …
- **Project Plan:** http://www.eclipse.org/eclipse/development/eclipse_project_plan_3_2.html

UML2

- Tools PMC
- **Status:** mature
- **Next major release:** 2.0 2Q2006
- The next major release, 2.0, will be based on the (soon to be) finalized version of the specification. This release will introduce a number of major semantic and API semantic changes - its focus will be conformance with the standard and reduction of memory footprint. Please see the project plan(s) for details.
- **Project Plan:** http://dev.eclipse.org/viewcvs/indextools.cgi/%7Echeckout%7E/uml2-home/docs/plans/uml2_project_plan_2_0.html

Test and Performance Tooling Platform (TPTP)

- TPTP PMC
- **Status:** mature
- **Next major release:** 4.1   11-Nov-2005
- *We worked hard to try to continue delivering exceptional goodness to further the realization of the TPTP vision…*
- Further enhancements to TPTP / JDT integration including ability to create and run JUnit tests for Eclipse plug-ins.
- Technology preview of a new automated GUI testing capability.
- Automatable and scriptable headless (i.e., without Eclipse/TPTP GUI) TPTP test execution via enhanced ANT/batch support.
- Trace data model enhancements to support collection of execution trace data from non-Java programs, options to export statistical tabular views of trace data to XML, and test data model enhancements allowing better access to test verdicts.
- Introduction as public APIs of our next generation data collection and communication frameworks (new agent controller, client and agent APIs) and ease of deployment and management of agent controller for data collection on local machine.
- Added extension points for (BIRT) report generation in various viewers (profiling, log, statistical, and sequence diagram).
- Generic Log Adaptor enhancements including configurable time-stamping, consistent display of time-zones across multiple logs, optimizations, such as reduced memory consumption, to support large log files, "how to use" documentation, and an extension point to add default symptom database URLs.
- **Project Plan:**
  http://www.eclipse.org/tptp/home/project_info/featureplans/features.php?source=All&project=All&release=4.1&file=TPTPFeatures_4.1.xml

Web Tools Platform (WTP)

- Web Tools PMC
- **Status:** incubation
- **Next major release:** 1.0 December 31, 2005
- The 1.0 release has several goals: hardening of user tools with respect to the 0.7 release, greatly enhanced user documentation, initial API declaration, and server facet modeling. The release will also include a roadmap for adopters with respect to the flexible project model and the likely direction of both WTP and platform work in this area for the June 2006 joint release. Note that most feature work will be deferred to the June 2006 (version 1.5) release, which will focus on J2EE 5.0 tooling.
- **Project Plan:**
  http://www.eclipse.org/webtools/development/eclipse_WTP_project_plan_1_0.html

Development Process Guidelines

- Worked iteratively with Add-in Provider Representatives, Committer Representatives, Board, and Project Leads to create a clarifying and explanatory "Guidelines" document.
  - http://www.eclipse.org/org/processes/Guidelines_for_Eclipse_Development_Process/

- Still in DRAFT stage, although approved-in-principle by Councils pending a few last edits. Expected completion by September 30th.

- I can (and have) given a 1½ hour talk on this topic, so let me summarize a few major points…

Guiding Principles

- Quality
- Collective Reputation
- Meritocracy
- Evolving
- Just Enough Process
- Culture of Quality
- Eclipse Ecosystem

- The processes and goals should make projects:
    - Easy to propose
    - Fairly easy to create
    - Kinda hard to validate (e.g., exit incubation)
    - Pretty tough to ship
- The processes are designed to enhance the middle ground of continued quality growth in Eclipse projects by eliminating the two undesirable endpoints:
    - no entry bar results in a wild mish-mash of projects, and
    - an entry bar so high that nothing new ever gets started

Explicit Exits

- The criteria for exiting each stage (Proposal and Incubation) has been made more explicit, even to the point of including checklists.

- The Eclipse IP Policy conformance has been made more explicit – what the projects need to do and keep track of; when and how.

- Started a discussion / explanation of what "Eclipse Quality" means.

- Explains operational details (such as "how to add a new mailing list") along with policy and philosophy issues (e.g., "a quality API").

Next Up

- Working with John Wiegand, Tyler Thessin, and Tim Wagner to document "The Eclipse Way" – a description of project management best practices for Eclipse open source projects.

- Oh, and finishing the automated tools that will enable you all to see the current and correct project status.