

TPTP 4.6 Release Review -- One Quick Foil

What's new



- Building with Java 5. Removing support for Java 1.4.
- Building all models with EMF 2.5.
- Platform: Add agent controller status field in preference.
- Test: Shortcuts for test navigating, usability improvements, open source action, test log search action, display large test logs
- Trace: Simplified external Java profiling agent environment variable setup

API quality – Code continues to mature/stabilize

- APIs are not changing significantly, a few new interfaces
- Cleared out lots of “old” defects; code base is now more solid w/ more tests.

Project plan

- <http://www.eclipse.org/projects/project-plan.php?projectid=tptp>

IP clearance and licenses in the code

- Inclusion of 3rd-party (non-EPL) components approved by EMO
 - Project Log Updated http://www.eclipse.org/tptp/home/project_info/releaseinfo/TPTP%20Project%20Log.htm
- Outbound license EPL
- Continue due diligence (Committer Agreements, PMC maintains list of non-EPL components, EMO source scan)

Diversity of the committer population & Openness of Community

- ~20 Committers plus a few Developers from 3 organizations
 - Continuing to recruit additional contributor (organizations and individuals) -- Help wanted
- Open communications/processes
 - 6 TPTP mailing lists and newsgroup
 - Annual F-2-F Meetings: PMC+PG; Weekly Calls: PMC+PG, Project
 - Open use of Bugzilla to track defects/enhancements; Visibility of nightly builds to community; Daily test reports published to web site



Eclipse™ TPTP 4.6 Release Review

June 1, 2009

Eclipse TPTP PMC & Planning Group

Introduction: TPTP 4.6 Release Review



■ Major Milestones

- Current release: 4.6 (June 26 '09) (part of Galileo train)
- Prior maintenance releases: 4.5.1 (Sep'08), 4.5.2 (Feb'09)
- Limited patch stream: 4.5.2.1 Milestone 1 (Mar'09), 4.5.2.1 Milestone 2 (June'09)
- Prior releases: 4.5 (June'08), 4.4 (June'07), 4.3 (Dec'06), 4.2 (June'06), 4.1 (Nov'05), 4.0 (July'05), 3.3 (June'05), 3.2 (Dec'04)
- Next release: 4.6.1 (sustaining mode - no plans for major release)
- Future releases
 - TPTP “major” releases aligned with Eclipse “release train”
 - TPTP maintenance releases aligned w/ Eclipse Platform maintenance releases (and simultaneous maintenance release trains)

TPTP 4.6 Release



- Review date:
June 10, 2009
- Project Plan:
<http://www.eclipse.org/projects/project-plan.php?projectid=tptp>
- IP Log:
http://www.eclipse.org/tptp/home/project_info/releaseinfo/TPTP%20P

Features: TPTP 4.6 Requirements Process



- Determine input/requirements from community/contributors/PMC input.
 - Maintenance mode.
 - No new enhancements.
- March 2009:
 - Approval and announcement of TPTP 4.6 final plan.



Features: TPTP 4.6 Key Feature Set

- Building all projects with Java 5.0. Exploiting Java 5.0 functions.
- Removing support for Java 1.4.
- Rebuilding all models with EMF 2.5.

- **Platform Project :**
 - Display current Agent Controller status on preference page
- **Test Project:**
 - Shortcuts for test navigating
 - Usability improvements to wizards
 - Open source action for TPTP URL tests and HTTP requests
 - Test Log Search action for test logs
 - Test log editor displays large test logs

- **Trace Project:**
 - Drastically simplified external Java Profiling agent environment variable set up

Features: Responding to the Community



- **New support:**
 - Builds with Java 5.0
 - Builds model with EMF 2.5. Taking advantage of latest stable EMF version.
- **Usability Improvements:**
 - Simpler environment variable set up for Java profiling agent
 - Usability improvements to test wizards
 - Shortcuts for test navigating
 - Open source action for TPTP URL tests and HTTP requests
 - Test Log Search action for test logs
 - Ability to display large test logs

Non-Code Aspects: Documentation & Examples

- TPTP 4.6 download includes online documentation
 - Created by developers and professional technical writers
- Tutorial & presentation materials available on www.eclipse.org/tptp
 - Current: Eclipse World 2005-2007, ST&P 2005-2006, EclipseCon 2005-2009, Eclipse Summit 2006
- TPTP 4.6 New & Noteworthy
 - To be made available via TPTP website
- TPTP Datasheet
 - Introduction to TPTP, outlining benefits to end-users, contributors
- Continuing incremental improvements/updates to TPTP website and download page
 - www.eclipse.org/tptp

Non-Code Aspects: Communications



Conferences

- EclipseCon 2009: 1 tutorial, 1 long talks, 2 short talks and 1 BoF

Community outreach for 4.6 release

- Engagement discussions with LTTng team on possible integration
- Polling for community involvement on porting Agent Controller to MAC OS
- News alert on TPTP website
- Postings on popular Eclipse websites and blogs

Architectural Issues



- Focus on increasing the quality of our test buckets
 - Increased automated test coverage
 - Overall increased number of testcases
 - Test cases created for any defects not caught by the current test bucket
 - Infrastructure developed to run tests (TPTP JUnit, JUnit Plug-in, and AGR) during builds (BVTs)
 - Revamped the TPTP testing process
- Increase in self use of TPTP testing and profiling tools
 - Continue using TPTP Test tools to create tests, run and report results
 - Infrastructure (based on TPTP) developed to run tests (TPTP JUnit, JUnit Plug-in, and AGR) during builds (BVTs)
 - Continue using TPTP profiler to locate memory leaks and performance problems
- Profiler of the Gods (PoG):
 - Identified/enhanced several core profiling use cases and resolved limitations
- Support and participation to the Galileo release process
- Future direction
 - Continue focusing on improving quality, performance, and scalability

Bugzilla Statistics



Target Milestone

Defects	--	others	4.5	4.5.1	4.5.2	4.5.2.1	4.6	4.6.1	future	Total
NEW	56	0				2	16	41	895	1010
ASSIGNED	12	0				2	3	17	209	243
REOPENED	0	0	0	0	0	0	1		8	9
RESOLVED	40	3482	504	75	111	5	107		98	4422
VERIFIED	0	128	6	0	0	0	0		0	128
CLOSED	68	3968	748	125	128	8	117		258	5420
Total	176	7578	1258	200	239	17	244	58	1468	11232

Bug statistics as of June 1, 2009


Release Exit Criteria

- No high severity defects & 100% test attempt/pass (95% pass on early iterations)
- Test results posted; All exceptions reviewed before deferral/discharge
- All tests are in CVS as TPTP Manual, JUnit, JUnit Plug-in, and AGR tests

Schedule



- Currently In the TPTP 4.6 final iteration leading to GA declaration
 - Release consisted of a 4-week and a 7-week development iteration and one 6-week shut-down iteration
 - Every iteration is aligned with Galileo +2 Simultaneous Releases

Key Dates	
Sep 2008	Released TPTP 4.5.1 (Ganymede Fall Maintenance release)
Feb 16, 2009	Commenced TPTP 4.6 development
Feb 2009	Released TPTP 4.5.2 (Ganymede Winter Maintenance release)
Mar 13, 2009	Completed TPTP 4.6 Iteration 1
Mar 2009	Release TPTP 4.5.2.1 Milestone 1
May 1, 2009	Completed TPTP 4.6 Iteration 2
Jun 12, 2009	Completed TPTP 4.6 Iteration 3
Jun 2009	Target for TPTP 4.5.2.1 Milestone 2
 Jun 12, 2009	Target for TPTP 4.6 Iteration 3 Completion (RC)
Jun 26, 2009	Target for TPTP 4.6 GA (Galileo release supporting Eclipse Platform 3.5)



Process

- ~20 Committers plus a few developers from 3 organizations
 - Committer elections and removals have followed charter principles
 - Continuing to recruit additional contributor (organizations and individuals)
- Open communications via 6 TPTP mailing lists and newsgroup
 - Project activities communicated via mailing lists for PMC/general, one each for each sub-project, and low-noise news only mailing list.
- Meetings, meeting, meetings – numerous, open, and documented
 - Annual F-2-F Meetings: PMC+PG; Weekly Calls: PMC+PG, Project
- Open and inclusive release planning and tracking processes
 - Bugzilla used to request and track all defects and enhancements
 - Additional reports (defects, tests, etc.) used to enhance planning/tracking
 - Daily test reports published to web site
- All contributions made directly to Eclipse CVS
 - Nightly, stable/iteration, and release builds available to the community

Community



- Open communications via 6 TPTP mailing lists and newsgroup
 - Low-noise news only list: tptp-news@eclipse.org
 - PMC, Groups, coordination, announcements, etc.: tptp-pmc@eclipse.org
 - Separate Committer mailing lists for each TPTP project: tptp-platform-dev, tptp-testing-tools-dev, tptp-tracing-profiling-tools-dev, tptp-monitoring-tools-dev
 - Improved Committer responsiveness to newsgroups
- Open and inclusive release planning and tracking processes
 - Bugzilla used to request and track all defects and enhancements
 - Additional reports (defects, tests, etc) used to enhance planning/tracking
 - Daily test reports published to web site
- Coordination/cooperation between other Eclipse projects
 - Platform, EMF/XSD, BIRT, WTP
- TPTP evangelism and outreach in the market & broader community
 - Continuing to drive adoption across other Eclipse projects and industry
 - Presence at Eclipse World 2007 and EclipseCon 2008/2009



Intellectual Property

- Accepting Contributions (In-Bound Licensing)
 - All new code provided under [Eclipse Public License \(EPL\)](#)
 - Inclusion of 3rd-party (non-EPL) components approved by EMO
 - Project Log Updated
http://www.eclipse.org/tptp/home/project_info/releaseinfo/TPTP%20Project%20Log.htm
- Licensing Contributions (Out-Bound Licensing)
 - TPTP 4.6 provided under EPL
- Due Diligence and Record Keeping
 - All TPTP Committers completed Committer Agreement & approved by PMC/EMO
 - PMC maintains list of all 3rd-party (non-EPL) components used by TPTP
 - EMO completed source scan and due diligence to confirm contributions

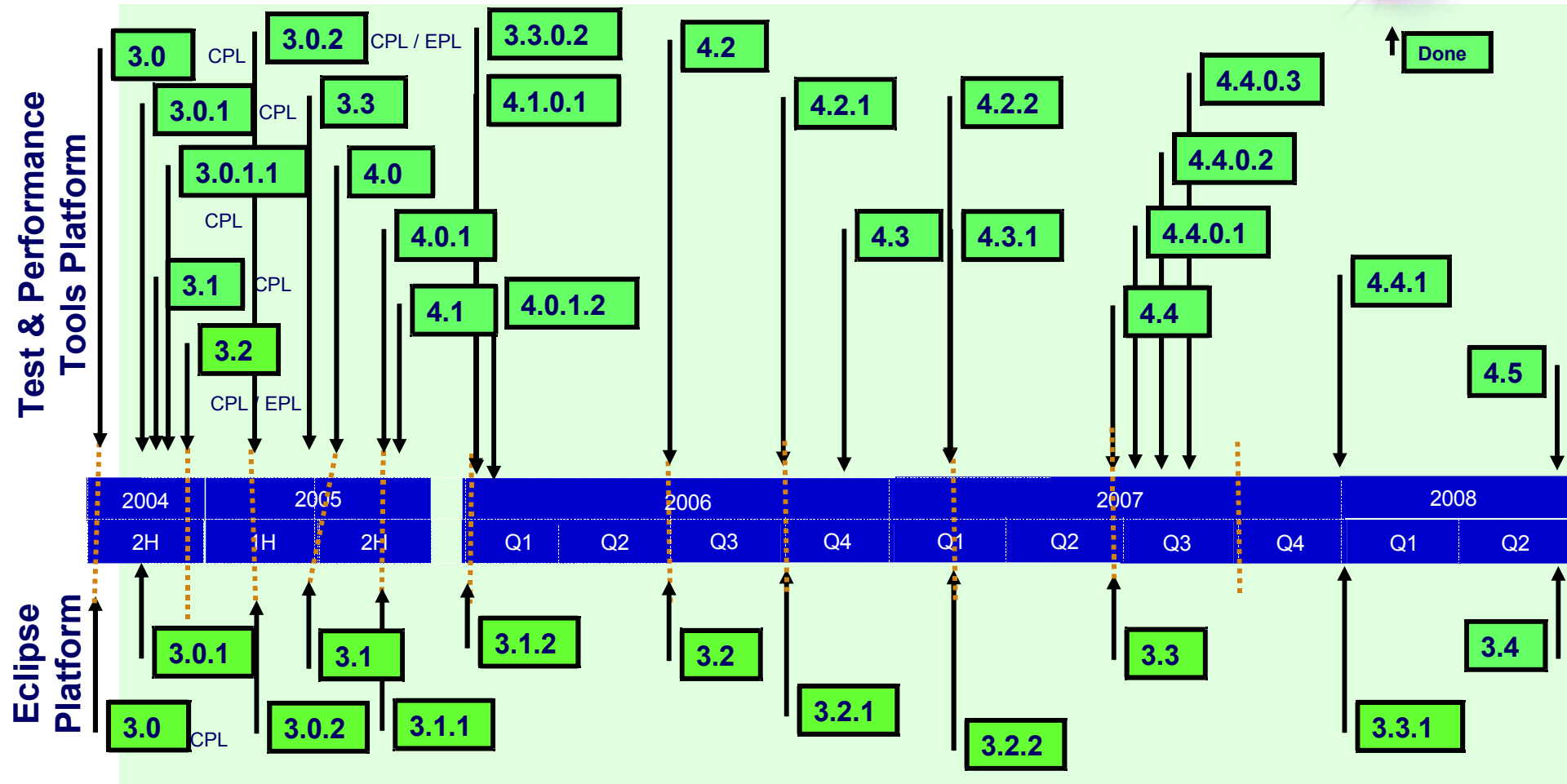
Eclipse Foundation IP Policy: http://www.eclipse.org/org/documents/Eclipse%20IP%20Policy2003_12_03%20Final.pdf



Project Plan

- TPTP 4.6 scheduled for June 2009
 - Based on Eclipse Platform 3.5 (Galileo)
 - Renamed from TPTP 4.5.3
- TPTP 4.6.x maintenance releases targeted for 2009/2010
 - Aligned with Eclipse Platform 3.5 maintenance releases
 - Sustaining mode - no plans for major release

Project Plan: TPTP Roadmap (prior releases)



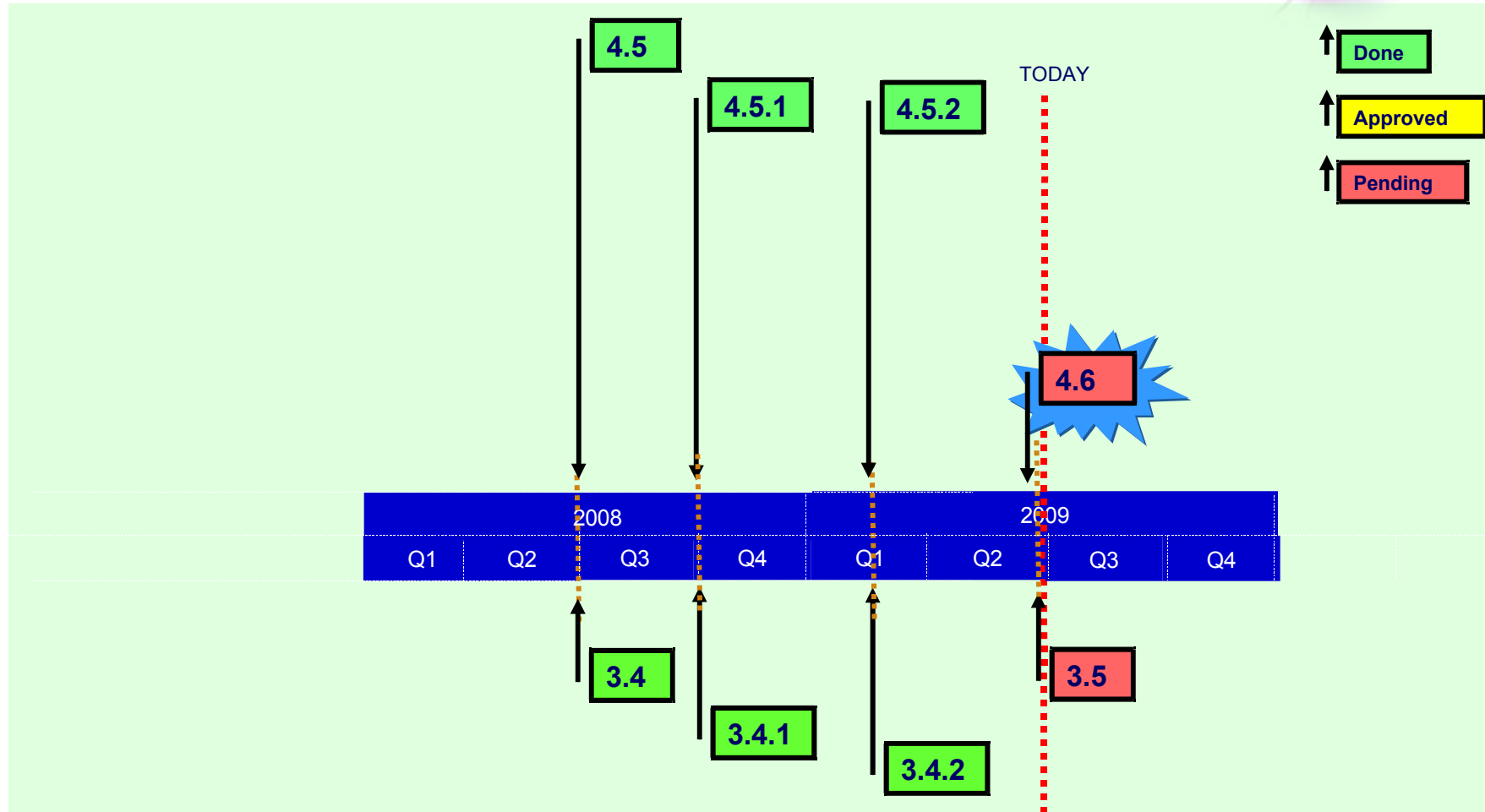
- TPTP 3.x, 4.[0|1].x and 4.[2|3].x releases are based on Eclipse Platform 3.0.x, 3.1.x and 3.2.x respectively
- CPL / EPL notations refer to the license(s) under which the release will be made; TPTP 3.3 and EP 3.1 and later are EPL only

Project Plan: TPTP Roadmap



Test & Performance
Tools Platform

Eclipse
Platform



Thanks and...



Feedback, Feedback, Feedback!

- **Please provide us with your feedback, requirements, issues**
- **Submit enhancement requests / defects in Bugzilla**
https://bugs.eclipse.org/bugs/enter_bug.cgi?product=TPTP
- **Submit questions / issues in the TPTP Newsgroup:**
<news://news.eclipse.org/eclipse.tptp>
- **Engage with the PMC to contribute:**
tptp-pmc@eclipse.org or individual PMC members at
<http://www.eclipse.org/tptp/groups/PMC/pmc.html>