

TPTP 4.7 Release Review -- One Quick Foil

What's new



- Building all plugins with Java 5..
- Drastically improve performance of memory analysis when profiling.
- Termination of the Monitoring sub-project.

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
 - TPTP 4.7 IP Log
http://www.eclipse.org/tptp/home/project_info/releaseinfo/4.7/TPTP_IPLog_4.7.htm
- Outbound license EPL
- Continue due diligence (Committer Agreements, PMC maintains list of non-EPL components, EMO source scan)

Maturing committer population

- ~10 Committers plus a few Developers from contributing companies

Open communications and processes

- 6 TPTP mailing lists and newsgroup
- Weekly PMC Calls
- Open use of Bugzilla to track defects/enhancements; Visibility of nightly builds to community; Daily test reports published to web site



Eclipse™ TPTP 4.7 Release Review

May 28, 2010

Eclipse TPTP PMC

Introduction: TPTP 4.7 Release Review



■ Major Milestones

- Current release: 4.7 (June 23 '10) (part of Helios train)
- Maintenance stream: 4.6.1 (Sept'09) and 4.6.2 (Feb'10)
- Limited patch stream: 4.5.2.1 Milestone 1 (March'09) to Milestone 5 (March'10)
- Prior releases: 4.6 (June'09), 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: 4.7.1 (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 4.7 Release



- Review date:
June 11, 2010
- Project Plan:
<http://www.eclipse.org/projects/project-plan.php?projectid=tptp>
- IP Log:
http://www.eclipse.org/tptp/home/project_info/releaseinfo/4.7/TPTP_IPLog_4.7.htm

Features: TPTP 4.7 Requirements Process



- Determine input/requirements from community/contributors/PMC input.
 - Maintenance mode.
 - No new enhancements.

Features: TPTP 4.7 What's New



- Building all projects with Java 5.0.
- Drastically improve performance of memory analysis when profiling.
- Significantly reduced defect backlog.
- Termination of the Monitoring sub-project.

Non-Code Aspects: Documentation & Examples

- TPTP 4.7 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 4.7 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

Architectural Issues



- Continual 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)
- 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 Helios release process
- Future direction
 - Continue focusing on improving quality, performance, and scalability

Bugzilla Statistics



Target Milestone

Defects	--	others	4.5 & 4.5.x	4.5.2.1	4.6	4.6.1	4.6.2	4.7	4.7.1	4.7.2	future	Total
NEW	9	0		1		0	0	9	43	27	36	125
ASSIGNED	2	0				0	0	8	4	2	37	53
REOPENED	0	0	0	0	0	0	0		3	3		6
RESOLVED	23	214	43	12	601	72	94	152			22	1233
VERIFIED	0	0	0	0	0	0	0				0	1
CLOSED	104	7337	1650	48	497	116	142	131			346	10470
Total	138	7551	1693	61	1198	188	236	300	50	32	441	11888

Bug statistics as of May 27, 2010


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 4.7 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 Helios +2 Simultaneous Releases

Key Dates	
Sep 2009	Released TPTP 4.6.1 (Galileo Fall Maintenance release)
Aug 2009	Released TPTP 4.5.2.1 Milestone 3
Nov 2009	Released TPTP 4.5.2.1 Milestone 4
Jan 2010	Commenced TPTP 4.7 development
Feb 2010	Released TPTP 4.5.2.1 Milestone 5
Feb 2010	Released TPTP 4.6.2 (Galileo Winter Maintenance release)
Mar 2010	Completed TPTP 4.7 Iteration 1
Apr 2010	Completed TPTP 4.7 Iteration 2
 Jun 11 2010	Target for TPTP 4.7 Iteration 3 Completion (RC)
Jun 23, 2010	Target for TPTP 4.7 GA (Helios release supporting Eclipse Platform 3.6)

Process



- ~10 Committers plus a few developers from contributing 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
 - Weekly PMC Calls
- 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 4.7 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

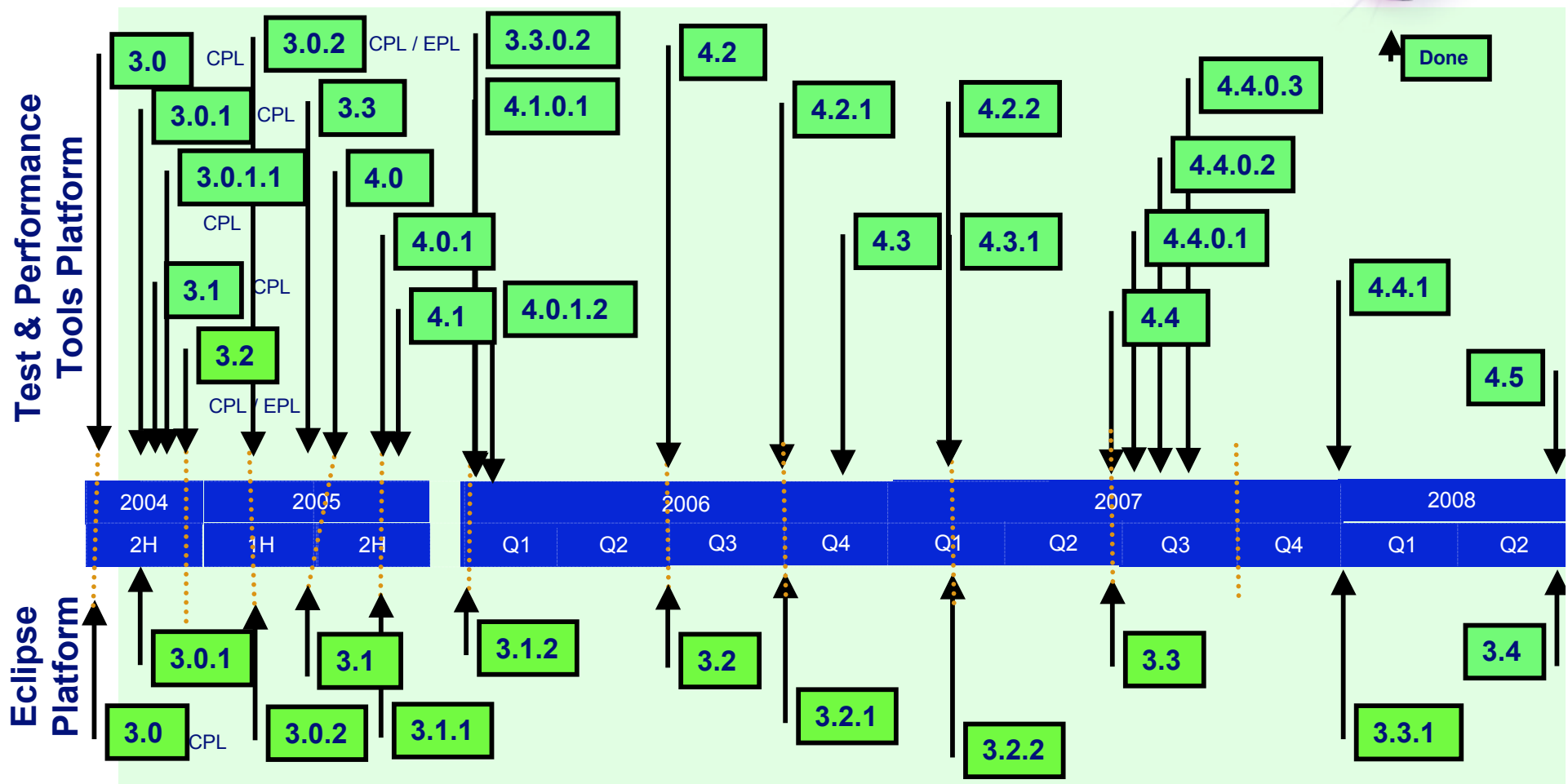
Eclipse Foundation IP Policy: http://www.eclipse.org/org/documents/Eclipse%20IP%20Policy2003_12_03%20Final.pdf

Project Plan



- TPTP 4.7 scheduled for June 2010
 - Based on Eclipse Platform 3.6 (Helios)
- TPTP 4.7.x maintenance releases targeted for 2010/2011
 - Aligned with Eclipse Platform 3.6 maintenance releases
 - Sustaining mode - no plans for major release

Project Plan: TPTP Roadmap (prior releases)



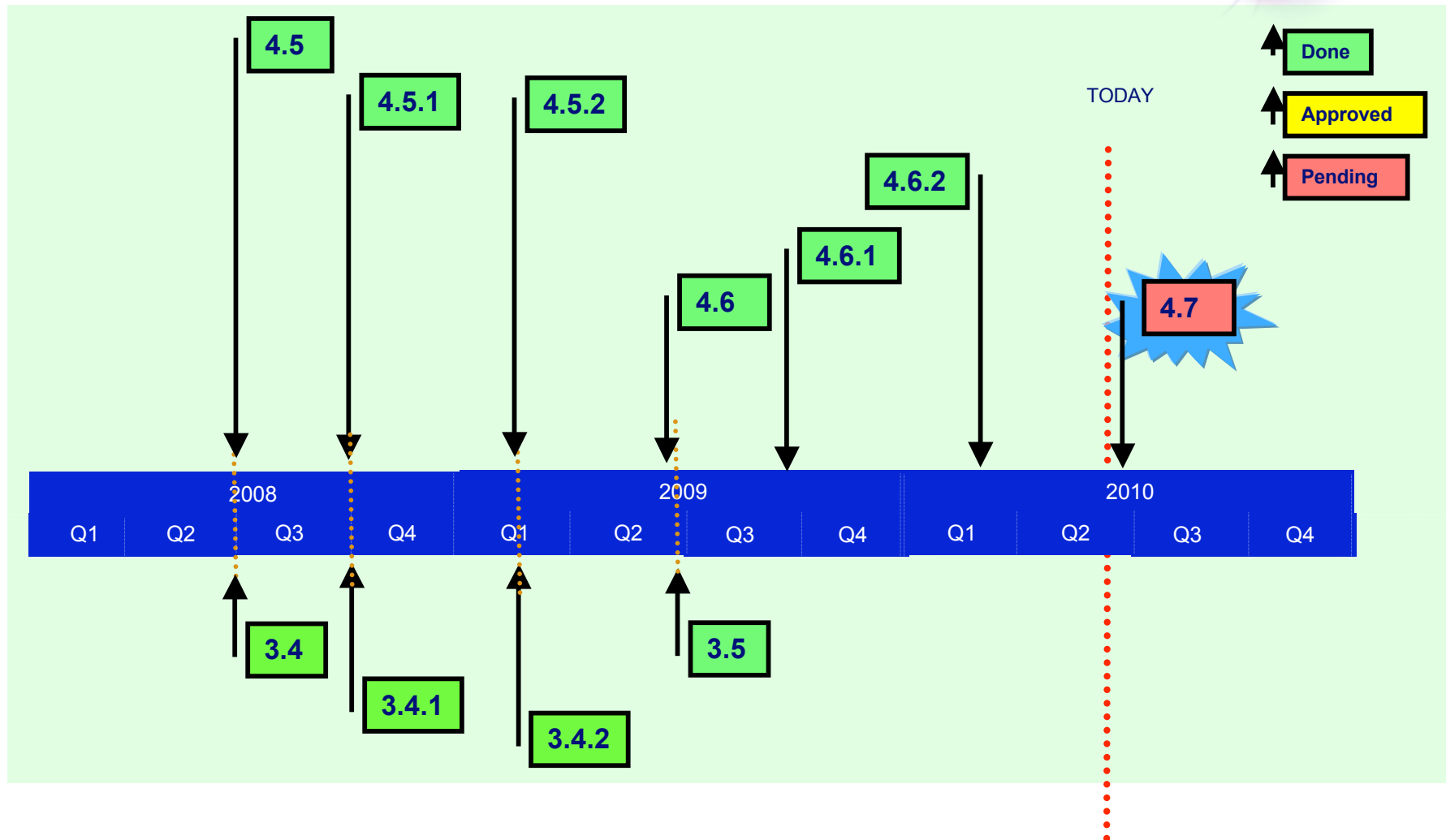
- TPTP 3.x, 4.[0|1].x and 4.[2|3].x releases are based on Eclipse Platform 3.0.x, 3.1.x and 3.2.x respectively
- CPL / EPL notations refer to the license(s) under which the release will be made; TPTP 3.3 and EP 3.1 and later are EPL only

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>