Tools for mobile Linux
Release Review 0.4
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Release review data compiled for Development Process 2.4
(http://www.eclipse.org/projects/dev_process/development_process.php)

Agenda

TmL Background

- A <u>sub-project</u> of DSDP (http://www.eclipse.org/projects/project_summary.php?projectid=dsdp.tml)

- <u>0.1 release</u> was 10 October 2008 (http://download.eclipse.org/dsdp/tml/downloads/drops/R-0.1-200810100100/)

- <u>0.2 release</u> was 14 January 2009

  (http://download.eclipse.org/dsdp/tml/downloads/drops/R-0.2-200901142200/)

- <u>0.3 release</u> was 24 June 2009 with Eclipse Galileo

  (http://download.eclipse.org/dsdp/tml/downloads/drops/S-0.3RC-200905152200/)

- <u>0.4 release</u> on 2 December 2009

  (http://download.eclipse.org/dsdp/tml/downloads/drops/S-0.4-200912022200/)

- Incubated in December 2006 and driven largely by Motorola

- Contributions from other mobile and embedded developers

- Goal is to provide support for development of mobile applications on the Eclipse IDE

- After 0.4, **no further releases of TmL are planned**. TmL is being moved into DSDP/Sequoyah and all further releases of code and binaries will occur there

Features

- 0.4 project plan with milestones and detailed deliverables available on project web site (http://www.eclipse.org/projects/project-plan.php?projectid=dsdp.tml)

- What's new in TmL 0.4:

  - Localization Tools

    This component is a framework for editors capable of dealing with synchronization of files which correspond to different locales. The component is intended to be generic so that consumers can implement their own localization editor simply by changing the schema. The reference implementation is based on Android.

Non-Code Aspects

- User documentation and tutorials
  - End-user documentation is minimal
  - Tutorial and sample projects from EclipseCon 2009 are available from the conference page
  - Older samples and tutorial available from the wiki pages
- Current implementation is in US English. Code uses NLS Standard for retrieving strings and formatting numbers
  - Bundles submitted to Babel project for Galileo and are 0% complete as of 23 November 2009
- Slide decks presented at EclipseCon 2009, CELF 2009, EclipseCon 2008, and LinuxWorld 2008 are available from the project web pages

  (http://www.eclipsecon.org/2009/sessions?id=481)

  (http://tree.celinuxforum.org/CelfPubWiki/ELC2009Presentations)

API Status

- **Eclipse Quality Standards** (http://www.eclipse.org/projects/dev_process/eclipse-quality.php)
  - IP due diligence as per the Eclipse IP Policy and other Eclipse processes [5], [6], [7], [8]
  - IPzilla bugs #3065 and #3066
- APIs (http://wiki.eclipse.org/Eclipse_Quality)

  Specifications: incomplete

  Test suites: no unit tests available, but there are sample components that use them

  Implementation: complete within the scope of the current specifications

  Clients: some components are used in products, but not all

  Support promise: within the scope of the current specifications
- Note: /proc tools component has no APIs
- Device Proxy component not to be included in 0.4
  - Implementation is not complete and priorities have changed

Architectural Issues

- Unit Tests do not exist for TmL
  - (https://bugs.eclipse.org/bugs/show_bug.cgi?id=243511)
- TmL scope change on "End of Life" slide (page 9)

Tool Usability

- New Localization component includes a string editor which is based on a JFace table editor

- The tool provides VNC viewer functionality inside an Eclipse view. The interactions of the view are defined by the VNC protocol

- User interactions provided by TmL elements (e.g. property editors, preference pages, wizards, etc.) all use Eclipse SWT controls and/or JFace components in a manner consistent with Eclipse UI Guidelines

- GUI code is separate from core code. This allows TmL adopters to use the core components while having a consistent GUIs by using their own GUI components

End-of-Life

- For 0.4, no APIs are deprecated, but some methods moved from one class to another (bug 288006).

- This is the last planned release of TmL as it exists today. Most of the TmL code will move to the DSDP/Sequoyah project.

- Incomplete implementation of the device proxy will not be moved. All components that move to Sequoyah will have a new name after TmL 0.4.

Bugzilla

- 32 bugs currently resolved or closed as fixed from 15 May 2009 to 2 Dec 2009

- 17 open bugs, some of them work items for future releases of Sequoyah

- 1 P2 bug currently open (Device proxy)

- 4 bugs of any severity of types == blocker, critical, or major

- Main bugs categories

  - 29 bug fixes

  - 3 feature improvement

- 1 bug with external patches applied

Bugzilla

- The current situation, as of 2 Dec 2009

Bugs opened by target milestone	
0.1	61
0.2	15
0.3	74
0.4	34
Future	17

Bugs in Release 0.4	
Duplicated	0
Invalid	0
Fixed	32
Postponed	2

Fixed bugs in Release 0.4 by Priority						
	Total	P1	P2	P3	P4	P5
critical	1			1		
major	3			3		
minor						
normal	25			25		
Enh	3			3		

Fixed bugs in Release 0.4 by Contributor			
	External	Committer	Total
critical		1	1
major		3	3
minor			
normal	1	24	25
enhancement		3	3

Standards

- Although the Remote Frame Buffer protocol is not an RFC, it is widely used. TmL uses versions 3.3 and 3.8 of the protocol.
  (http://www.realvnc.com/docs/rfbproto.pdf)

- /proc file viewers use

  - FTP

  - Telnet

  - TCF

UI Usability

- The design of the new features of TmL 0.4 followed the UI Guidelines.

- TmL is compliant with the Section 508 (support for multiple languages). Also, all plug-ins store strings and other localizable resources inside bundles.

Schedule

- 0.1 released 10 October 2008. Release slides on TmL web site
  (http://www.eclipse.org/dsdp/tml/reviews/ReleaseReview_DSDP-TmL_0_1.pdf)

- 0.2 released 14 January 2009. Release slides on TmL web site
  (http://www.eclipse.org/dsdp/tml/reviews/ReleaseReview_DSDP-TmL_0_2.pdf)

- 0.3 released 24 June 2009. Release slides on TmL web site
  (http://www.eclipse.org/dsdp/tml/reviews/ReleaseReview_DSDP-TmL_0_3.pdf)

- 0.4 release on 2 Dec 2009. Release slides on TmL web site
  (http://www.eclipse.org/dsdp/tml/reviews/ReleaseReview_DSDP-TmL_0_4.pdf)

- TmL repositories will be set to read-only status after 0.4 and will be prepared for archival. All subsequent work will be done in DSDP/Sequoyah

Communities

- Commercial adoption
    - TmL components are currently being used in Motorola products
    - No other commercial adoption confirmed
- New members added to project in 2009
    - One code committer added (Daniel Pastore)
- One external code contribution in 2009, committed in CVS

Communities cont'd

- Moderate activity on dsdp-tml-dev mailing list (area to improve)
- All work accounted for on Bugzilla
- Bi-weekly open phone calls since April 2007, with announcements to mailing list several days prior
- PR/Evangelism
    - EclipseCon 2007 – 1 talk (1 10-min short talk)
    - EclipseCon 2008 – 2 talks (1 1-hr long talk, 1 10-min short talk)
    - EclipseCon 2009 – 3 talks (1 2-hr tutorial, 1 1-hr long talk, 1 10-min short talk)
    - LinuxWorld 2008 – Long talk
    - Linux Foundation Consumer Electronics Forum 2009 – Long Talk
    - Individual recruiting activities
- The primary reason for rescoping TmL into DSDP/Sequoyah is to allow for the building of community around Mobile Development, without focusing on Linux as a target

IP Issues

Per Eclipse IP Policy, the project leadership verifies that …

- ✓ … the "about" files and use licenses are in place as per the Guidelines
- ✓ … all contributions (code, documentation, images, etc) have been committed by individuals who are Members of the Foundation and are abiding by the Eclipse IP Policy (training through Committer HOWTO)
- ✓ … 3rd party libraries have been documented in the release and reviewed by the Foundation's legal staff
- ✓ … all contribution questionnaires have been completed
- ✓ … the "provider" field of each plug-in is set to "Eclipse.org"
- ✓ … the "copyright" of each plug-in is set to the copyright owner
- ✓ … there are no 3rd party logos or fonts to be licensed under the EPL
- ✓ … All jar packages contains "Incubation" label to indicate the currently project status

See the IP Log at

- http://www.eclipse.org/dsdp/tml/development/tml-log.csv
- http://www.eclipse.org/projects/ip_log.php?projectid=dsdp.tml
- http://www.eclipse.org/dsdp/tml/ipLog.php

IP Issues Speak-Up-Now

- No issues for TmL 0.4

Project Plan

- 0.3 on the Eclipse Galileo train (25 June 2009)

- 0.4 on 2 December 2009

- Move TmL into DSDP/Sequoyah, at which point, the TmL code will be marked read-only and prepared for archival

- Project Plan is in CVS

  - http://www.eclipse.org/projects/project-plan.php?projectid=dsdp.tml

TmL Committers and Contributors

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TmL Project Resources

- Project web site:
    - http://www.eclipse.org/dsdp/tml

- Project wiki:
    - http://wiki.eclipse.org/DSDP/TML

- Regular phone meetings:
    - http://wiki.eclipse.org/DSDP/TML/TmLOpenPhoneMeetings

- Developer mailing list:
    - https://dev.eclipse.org/mailman/listinfo/dsdp-tml-dev
    - dsdp-tml-dev@eclipse.org

- Update site
    - http://download.eclipse.org/dsdp/tml/updates/0.1/
    - http://download.eclipse.org/dsdp/tml/updates/0.2/
    - http://download.eclipse.org/dsdp/tml/updates/0.3/
    - http://download.eclipse.org/dsdp/tml/updates/0.4/