



DSDP Target Management 3.1 In the Galileo Coordinated Release

Eclipse Development Process version 2.4 – August 20, 2008
Slide deck v1 – June 3, 2009

Martin Oberhuber, Wind River
TM Project Lead

Spotlight Talking Points



- **TM 3.1 New Features**
 - RSE Team Synchronize integration (GSoC contribution)
 - Generic Terminal now also for Telnet
 - Several smaller performance / usability improvements
- **API Quality:**
 - Few well-reviewed API additions backed by API Tooling.
 - Fully binary compatible with TM 3.0
- **End-of-Life issues:**
 - Remote CDT Launcher moved to the CDT project, but still very active
 - TM Discovery component no longer actively developed
 - Parts of RSE client moved from Java 1.4 to Java 5
- **IP Clearance and Licenses:**
 - All licenses and about files are in place as per the Eclipse Development Process, the Due Diligence Process was followed for all contributions.
- **Community and Committer Diversity:**
 - 10 committers (5 WindRiver, 4 IBM, 1 MontaVista) – was 11 in 3.0
 - 18 additional contributors: WindRiver, IBM, Xored, Individual – was 23 in 3.
 - Continued high traffic on newsgroup and mailing lists

DSDP Target Management – Introduction



- Major project milestones
 - Project Created – June 2, 2005
 - RSE 1.0 – Nov 12, 2006
 - TM 2.0 and 3.0 on Europa and Ganymede respectively
- Strong uptake on TCF component this year (still incubating though)
 - EclipseCon 2009 Tutorial on TCF specifically
 - Separate TCF mailing list, lots of contributions
- Remote System Explorer (RSE) stable after strong growth last year
 - 1 new committer but 2 lost due to changing jobs (-1)
 - 10 individual contributors to RSE, mostly from IBM
 - Newsgroup still quite active
- TM 3.1 project size
 - RSE: 356 kLOC + TCF: 162 kLOC (R3.0: 346k + 97k)

Target Management vs. RSE



„Data models and frameworks to configure and manage remote systems, their connections, and their services“.

- **org.eclipse.tm.core**: Core Components (few dependencies)
 - Terminal Widget and View
 - RAPI wrappers, Jakarta Commons/Net 3rd party library
- **Target Communication Framework (TCF, Incubating)**: Extensible protocol framework for development-time tooling
- **org.eclipse.tm.rse**: A consistent framework and UI for accessing remote compute resources from Eclipse.
- Remote System Explorer (RSE) integrates core components.
TM is the “project”, RSE is the “product”.



TM 3.1 New Features

- 3.1 Plan available at
<http://www.eclipse.org/projects/project-plan.php?projectid=dsdp.tm>
- New Features – mostly smaller items
 - Platform/Team Synchronization (GSoC contribution)
 - Generic Terminal now also for Telnet
 - Locating an item in the RSE tree from other views
 - Configurable sharing of cached files across connections
 - Performance improvements and bug fixes
- Plan items that were deferred
 - Bring TCF and WinCE to maturity, add Terminal public API
- API review and cleanup:
 - Starting to use PropertyTesters
 - New RSE ITerminalService, along with generic IShellService
- Exact descriptions of changes and migration docs available from each milestone's build notes



Non-code aspects

- User documentation and tutorials
 - <http://dSDP.eclipse.org/help/latest/>
 - Automatically updated from nightly builds
- ISV documentation and tutorials
 - Includes Javadoc, Architectural overview and 3 tutorials
 - EclipseCon Tutorials with code, Webinar, Wiki-based FAQ
 - Elaborate New&Noteworthy / Build Notes with each Milestone
- Working Example Code
 - Adding a custom subsystem, Adding a custom service, Adding a remote popup menu action, Adding a remote Preference page
- Externalization and Accessibility guidelines followed, Localization by IBM as well as the Babel project
- Publications and Conference talks as part of DSDP

API: 3.1 Status



- During the 3.1 cycle, Eclipse API Tooling was (again) used to ensure
 - Proper split of API and non-API without API Leakage
 - Proper version numbering, documentation and @since tags
 - Proper documentation of intended API usage
 - Without examples & tests: 833 API types / 1354 non-API (3.0: 935 API / 1476 non-API)
 - **3.1 showed that current APIs are maintainable. No new weaknesses added.**
- RSE Core Model - Subsystem / Services / Filters API
 - 5 clients in RSE, plus 2 examples
 - New ITerminalService created from scratch
 - Full Javadoc, architectural overview, tutorials, examples
 - Some automated Unit tests
- Dstore Miners API
 - 4 clients in RSE, additional commercial clients at IBM
 - Full Javadoc, architectural overview
 - Currently no Unit tests



API: 3.1 Status (cont.)

- UI Extensions and API
 - Widgets, menus and pages for remote, similar to Eclipse Platform
 - Several internal and commercial clients
 - Full Javadoc, tutorial and examples
 - Manual Test Plans, No Unit Tests
- Persistence Providers
 - 3 clients in RSE (PropertyFileProvider, MetadataPropertyFileProvider, SerializingProvider)
 - Javadoc
 - No Unit Tests
- Previous RSE 3.0 release is binary compatible

Architectural Issues



- Well-proven extensible subsystem / services concept
 - New subsystem ideas implemented by Community
- Legacy code (especially RSE) still not fully cleaned up
 - Need to make use of more modern functionality from the Platform
 - Better UI / Non-UI separation and componentization
 - TCF's new technology is much cleaner
- Need more Unit Tests
 - Hard to do for UI-heavy parts
- Overlaps with other projects - Many remote access APIs
 - E.g. Remote File Service – 5 APIs: Platform EFS, ECF fileshare, TPTP Agent File Interfaces, Platform/Team target API, RSE IFileService
 - Talking with all those projects
 - Disconnected “Remote Development (RDT)” effort at IBM / PTP

Tool Usability



- Seamless access to remote files
 - Edit, Compare, search and move remote files as if they were local
 - Browse remote archives as virtual filesystem
 - Optimized for minimal data transfer (as opposed to EFS)
 - Popular with remote Web page and PHP editing
- Shell and Processes subsystems out of the box, generic framework for vendor-specific subsystems (e.g. Symbian VNC-like phone browser)
- Lightweight embeddable Terminal widget
- DNS-SD Service Discovery (no longer maintained)

End-of-life



- Remote CDT Launcher moved into CDT but still very active
 - New feature: execute shell commands before launch
- Service Discovery no longer actively maintained
- Parts of RSE client switched from Java 1.4 to Java 5
 - Dstore server is still Java 1.4

- Statistics as of 3-Jun-2009

TM 3.1 Bugs fixed by Target Milestone											TM 3.1 bugs still open					
	M2	M3	M4	M5	M6	M7	RC1	RC2	RC3	3.1 Fixed	3.1	3.1.1	3.2	—	Future	Total
blocker	.	.	.	1	.	.	1	.	.	2	0
critical	1	1	.	1	.	2	.	.	1	6	.	.	.	1	.	1
major	1	3	3	3	1	1	.	.	.	12	1	2	.	10	2	15
normal	26	39	18	20	17	31	6	3	4	164	137	10	3	96	51	297
minor	1	2	.	1	2	3	1	1	.	11	35	3	.	23	37	98
trivial	1	1	.	.	.	1	.	.	.	3	7	2	.	4	4	17
enhancement	2	.	6	9	3	5	1	.	.	26	49	2	4	96	111	262
Total	32	46	27	35	23	43	9	4	5	224	229	19	7	230	205	690

- Currently 224 fixed in 3.1 / 690 open (3.0: 441 fixed / 671 open)
 - Backlog constant, did not meet our backlog reduction goals
 - Retargeting needed for 229 bugs originally planned for 3.1
- http://www.eclipse.org/dsdp/tm/development/bug_process.php
- Release Exit Criteria: 0 Critical Bugs, Release Test Pass

Standards



- RFC 959 FTP
 - Also supports RFC 1579 firewall-friendly FTP
 - Supported through Jakarta Commons/Net
 - For details, see <http://jakarta.apache.org/commons/net/>
- RFC 4251 ssh2
 - Also supports RFC 4252, 4253, 4254, 4256 (KI-authentication)
 - draft-ietf-secsh-filexfer-13 for sftp
 - Supported through com.jcraft.jsch
 - For details, see <http://www.jcraft.com/jsch/>

UI Usability



- Externalization and Accessibility guidelines followed
 - Keyboard accessibility of all items verified
 - Menu items for special keys
 - Messages marked up properly for screen readers
- All UI-visible Strings are externalized
- Externalization mostly through Eclipse NLS mechanism, partially through systemMessages.xml (further diminished in 3.1)
- Localization will be done by IBM (for WebSphere), and Eclipse Babel project



Schedule

- Original Planning document on the Wiki
- Original XML project plan posted Aug-2008
 - Helped on XML plan format specification
- Milestone dates were hit with max. 3 days delay
- Some Community Contributions still pending
 - “Local Terminal” was not finished due to missing CDT prereq



- Strong focus on Open, Transparent Planning and Execution:
 - Collected [Use Cases](#) available from the Web
 - Open Planning process, Features and Technical Working Groups maintained on Bugzilla, with “Overview” index entries on the [Wiki](#)
 - Made all communications public on the Mailing List, Regular phone conferences open to the public
- Committers: set up and documented guidelines for bug handling, due diligence, compiler warnings and code ownership
 - All linked from the Committer HOWTO on <http://www.eclipse.org/dsdp/tm/development/>
- Infrastructure: Automated nightly builds, CVS Changelog, Automated nightly infocenter update
 - Adopting Modeling Releng on dsdp.eclipse.org
- Planned and coordinated testing involving the greater community
 - See <http://wiki.eclipse.org/DSDP/TM/Testing/3.1m5>



Committers and Contributors

- 10 committers from 3 organizations (WindRiver, IBM, MontaVista)
 - Was 11 committers in 3.0; 1 new committers won, 2 lost due to job change
- Direct contributions from 18 other individuals (was 23 in 3.0)
- Active participation from many others
- Mailing list and Newsgroup participation from ARM, Cisco, Ericsson, Intel, Freescale, QNX, TI and many many others
- Monthly development calls, Bi-weekly committer calls
 - De-facto all calls are committer calls
 - Opportunity to review status
 - Developer/design discussions: committers work closely together



- RSE “out of the box” is a useful tool for lots of people
 - Ssh, sftp, ftp file transfer; remote and local shell access
 - More and more development happens in “connected” environments
- Embedded is rapidly adopting Eclipse
 - Commercial Adoption according to a Survey by ACCESS, Ames DOE Lab, Atmel, Elastos, EMAC Inc, IBM, Festo Inc, Freescale, Montavista, QNX, Symbian, Tradescape, WindRiver
- Talks at EclipseCon’s since 2007; EclipseSummit Europe since 2006; Webinar
- Press activity as part of DSDP, individual articles in magazines
- A well-respected and known member of the Community

Publications and Conference Talks



- Publications and Conference Talks
 - TM Webinar, April 2007,
<http://live.eclipse.org/node/229>
 - DSDP Drives Adoption of Eclipse in Embedded, April 2007,
<http://www.eclipse.org/org/press-release/20070403embedded.php>
 - EclipseCon Tutorial, March 2007,
<http://www.eclipsecon.org/2007/index.php?page=sub/&id=3651>
 - Eclipse Summit Europe, October 2007,
<http://www.eclipsecon.org/summiteurope2007/index.php?page=detail/&id=21>
 - EclipseCon Tutorial, March 2008,
<http://www.eclipsecon.org/2008/?page=sub/&id=38>
 - Eclipse Magazin (German), May 2008, 6-page project article



As per the Eclipse IP Policy, the project 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)
- ... all significant contributions have been reviewed by the Foundation's legal staff – even if written by committers prior to joining Eclipse
- ... third-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 - DSDP"
- ... the "copyright" field of each plug-in is set to the copyright owner
- ...there are no 3rd party logos or fonts to be licensed under the EPL
- See the automated IP Log at http://www.eclipse.org/projects/ip_log.php?projectid=dsdp.tm



Future Plans

- Service Releases with the Galileo train
 - TM 3.1.1 and 3.1.2
- Shooting for backward compatibility again next year
 - TM 3.2 release in June 10 to be backward compatible
- Moving forward on deferred items from the 3.1 plan
 - Bug backlog reduction
 - Performance, Scalability, Usability
 - TCF – Component to exit incubation
 - Multicore – better framework for multiple targets
 - Scaling Down – Further componentization, becoming more RCP-aware and applicable for headless

Thank You



And please provide feedback...

dsdp-tm-dev@eclipse.org

<news://news.eclipse.org/eclipse.dsdp.tm>



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 - draft-ietf-secsh-filexfer-13 for sftp
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- Talks at EclipseCon’s since 2007; EclipseSummit Europe since 2006; Webinar
- Press activity as part of DSDP, individual articles in magazines
- A well-respected and known member of the Community

Publications and Conference Talks



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[news://news.eclipse.org/eclipse.dsdp.tm](http://news.eclipse.org/eclipse.dsdp.tm)