

Introduction: BIRT 2.3 Release Review



- BIRT 2.3 is targeted for availability June 25, 2008
 - Based on Eclipse Platform 3.4
 - Part of Ganymede Simultaneous Release
- Major Milestone History
 - 1.0, Jun 2005; 1.0.1, Jul 2005
 - 2.0, Jan 2006; 2.0.1, Feb 2006
 - 2.1, Jun 2006; 2.1.1 Sep, 2006; 2.1.2, Feb 2007; 2.1.3, Jul 2007
 - 2.2, Jun 2007; 2.2.1 Oct 2007; 2.2.2, Feb 2008
- Release alignment
 - “Major” release designation determined by feature set
 - Summer releases will be aligned with Eclipse release train

Features: BIRT 2.3 Requirements Process



- Requirements gathered from multiple sources:
 - Enhancement requests already entered in Bugzilla
 - Discussions in BIRT newsgroup
 - Innovation/experience from within the BIRT project team
- Requirements captured in Bugzilla
 - Community encouraged to enter all enhancements into Bugzilla for planning and tracking
- Candidate projects identified and listed on BIRT Wiki
- BIRT Project Specifications (BPS) created to define scope and encourage discussion and feedback
- BIRT 2.3 Plan developed and published on Eclipse.org

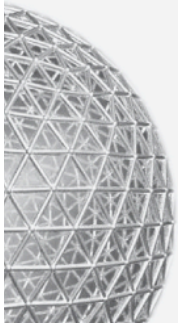
Features: Summary of BIRT 2.3 Objectives & Themes

- Integrate and provide BIRT as part of the Ganymede Simultaneous Release
 - Support use of BIRT in a wide range of Eclipse 3.4 applications
 - Ensures BIRT technology is easily accessible to Eclipse 3.4 community
- Specific additional features can be grouped into broad categories
 - Support for Eclipse 3.4 (tested with Ganymede components)
 - Prototype Integration of Eclipse DTP Project's Graphical Query Builder
 - BIRT JavaScript Debugger to debug scripting with JavaScript
 - JavaScript validation within Expression Builder
 - Usability Improvements (e.g. easier formatting, Prototype Integration of DTP Graphical Query Builder, crosstab improvements)
 - Crosstab Enhancements (e.g. scripting, computed measures)
 - Chart Enhancements (e.g. better layout, consume cube data)
 - Crosstab & Chart Integration (e.g. chart view of measure data)
 - Inclusion of External JavaScript files (e.g. references to external .js files)
 - Generate Report Document directly from BIRT Workbench
 - Extension point to create custom data extracts from Report
 - Bidirectional language support (Bidi) for Hebrew and Arabic
 - Bi-Directional enhancements for core API and BIRT runtime (e.g. rendering right-to-left reports in HTML and alternate formats such as Excel, PDF, WPML).
- Incorporate Eclipse Themes & Priorities where applicable

For Details, refer to BIRT 2.3 Release Plan and Bugzilla

Non-Code Aspects: Documentation & Examples

- BIRT 2.3 download includes online documentation
 - Created by professional technical writers
- Tutorials and examples available on www.eclipse.org/birt
 - How-To recorded demos
 - Articles on common BIRT usage scenarios
 - Examples of common reports, code snippets
- BIRT includes an embedded Derby sample database
 - Easy to learn how to use BIRT with tutorials and examples
 - Standard SQL data that can easily be loaded into other DBs
- New & Noteworthy documents
 - Have been created for Milestone releases
 - Comprehensive BIRT 2.3 N&N will be created for final 2.3 release



Buckminster

Ganymede 2008

<http://www.eclipse.org/buckminster>





BUCKMINSTER OBJECTIVE

Buckminster's objective is to leverage and extend the Eclipse platform to make mixed-component development as efficient as plug-in development. The basic approach is to introduce a project-agnostic way of describing a development project's component structure and dependencies, and to provide a mechanism for materializing source and binary artifacts for a project of any degree of complexity.



BUCKMINSTER CAPABILITIES

- **Complex dependency resolution**, providing recursive resolution of dependencies leveraging existing Eclipse "Team Providers," with the addition of new retrievers, for exemplary purposes, covering source and binary artifacts that are not version-controlled in a traditional sense. Resolution uses a variety of versioning schemes and is based on match rules similar to those found in the Eclipse plug-in framework. This allows comparison of current and prior dependency resolutions to support update impact analyses.
- **Uniform component dependency format**, using a component-type agnostic mechanism for describing components and their respective targets and dependency requirements. Most Eclipse projects, and many other component types, have some level of dependency information that can be leveraged. Extensions can be added to provide additional strategies for dependency pattern recognition.
- **Intelligent retrieval mechanisms**, using a component query mechanism the resolution and generated bill of material needed for a given configuration are separated from the actual materialization. This allows sharing of configurations with varying degree of variability between team members (e.g. from "all source needed for latest revision on main branch" to "frozen release configuration").
- **Flexible project workspace binding**, allowing components materialized on disc to be bound to a workspace in different ways, including invoking "build action" before binding to a workspace and supporting "Proxy Projects" consisting of links to physical artifacts and auto-generated Eclipse project information. These capabilities are helpful when sharing code or other artifacts that are not eclipse projects.





BUCKMINSTER CAPABILITIES

- **Actions**, leveraging existing “build technologies” both within Eclipse (PDE-build) and external (ANT), Buckminster can drive building, and assembling components. Materialization is not just “copying of files” – a compiled artifact can be materialized from its source.
- **Headless mode**, a headless packaging of Buckminster gives the same capabilities to command line level tools and scripts as what is available in the Eclipse IDE. As an example Buckminster can drive headless PDE builds.

CDT 5.0 Ganymede Mini Deck

Doug Schaefer
CDT Project Lead

CDT 5.0 Ganymede Features

- What's new located here:
 - ♦ <http://wiki.eclipse.org/CDT/User/NewIn50>
- Highlights
 - ♦ New Refactoring Engine with New Refactorings
 - ♦ Improved coverage of CDT index
 - Esp macros
 - ♦ Improved content assist, search
 - ♦ Debug catchpoints as supported by gdb
 - ♦ Mylin Bridge
 - ♦ Doxygen support

APIs

- Some effort towards finalizing APIs
 - ♦ At least intentions
- API freeze at M6 effectively managed
 - ♦ Very little API change post M6
- Quality of APIs continue to be an issue
 - ♦ Lack of public review
 - ♦ Lack of complete documentation
 - No programmers guide
 - ♦ APIs will likely continue to change in future releases
 - But also continue to be managed carefully

Architectural Issues

- CDT 3.1 indexer architecture continues to show wins
 - ◆ Now with improved accuracy with same fast performance
 - ◆ Hope to remove Full (slow) indexer next release
- Multi-language support continues to progress
 - ◆ Work on extensible parsing, AST reuse
- CDT Debug Interface/Debug Services Framework
 - ◆ DSF continues to mature
 - ◆ Work still require to fully integrate the two (esp. launch)
- Build architecture quality remains elusive
 - ◆ Lots of new work in 4.0, but still some quality issues
 - ◆ Need to take a clean look next release
 - In conjunction with flexible resource model

Communities

- Volume of adopters continues to grow
 - ♦ More activity on the cdt-dev list from new players
- User community support improved
 - ♦ Handful of committers helping on newsgroup
- Committer community
 - ♦ 18 “active” committers, 2 “participating”, 3 “inactive”
 - ♦ Most committers part time at varying levels
 - ♦ Intel announced withdrawal of committers post 5.0 :(

Project Plan

- Next Release – CDT 5.1
- Proposed Features
 - ♦ Tighter integration of DSF into CDT
 - ♦ Unification of Launch Configs
 - ♦ Improve Build System Architecture
 - Including Scanner Discovery
- CDT Summit
 - ♦ Sept 22-24
 - ♦ CDT 5.1 Plan to be finalized



DLTK - Introduction

- DLTK 0.95 releasing following components to Ganymede
 - Core Frameworks
 - Ruby IDE
 - TCL IDE
 - XOTcl and ITcl OO Extensions support for TCL IDE
 - Remote development via DSDP TM RSE
 - Mylyn Integration Component
- Community
 - 9 committers from CodeGear, Servoy, Xored, Zend, and individuals
 - Used for Eclipse PDT 1.1 Project
 - Foundation for CodeGear's 3rdRail Ruby on Rails IDE



DLTK - Project Milestones and IP

- Proposed December 2005
- Created December 2006
- DLTK 0.9 Released with Europa (June 2007)
- DLTK 0.95 is under development and going to be released with Ganymede (June 2008)
 - Project plan available at http://wiki.eclipse.org/DLTK_0.95_Project_Plan
 - New features since 0.9 includes many IDE improvements; support of TCL OO Extensions like XOTcl and Itcl; option to work with projects located on remote hosts (with help of DSDP TM Project); and integration with Mylyn Project
- All plugins contain appropriate license files
- All committers have completed Eclipse Committer Agreements and have been approved by the PMC
- Project IP Log maintained at http://www.eclipse.org/dltk/ip_log.html



DLTK 0.95 (Incubation) Features

- Core Frameworks
 - Structural Source Code Model
 - Type Inference Engine
 - Search and Indexing
 - Launching and Debugging over DBGp protocol
 - Interactive Console
 - Common UI components (Wizards, Views, Preference Pages, etc)
 - Plan available at: http://wiki.eclipse.org/index.php/DLTK_Project_Plan
- Ruby IDE Component
 - Many of JDT-alike features implemented
- TCL IDE Component
 - Many of JDT-alike features implemented
- Integration Components
 - Mylyn Integration and Remote Projects support via RSE



DLTK - API: 0.95 Status

- Implementation
 - Project is in incubation phase and public API is not stabilized yet.
 - Core Frameworks API is quite stable.
 - Ruby and TCL IDE components are quite stable, feature complete and a base of some commercial and open-source products.
- Documentation
 - Project is in incubation phase and lacks of documentation.
- Test Cases
 - Some code is covered with test cases.
- Compatibility
 - Version 0.95 is not backward compatible with 0.9



DSDP/Device Debugging Summary

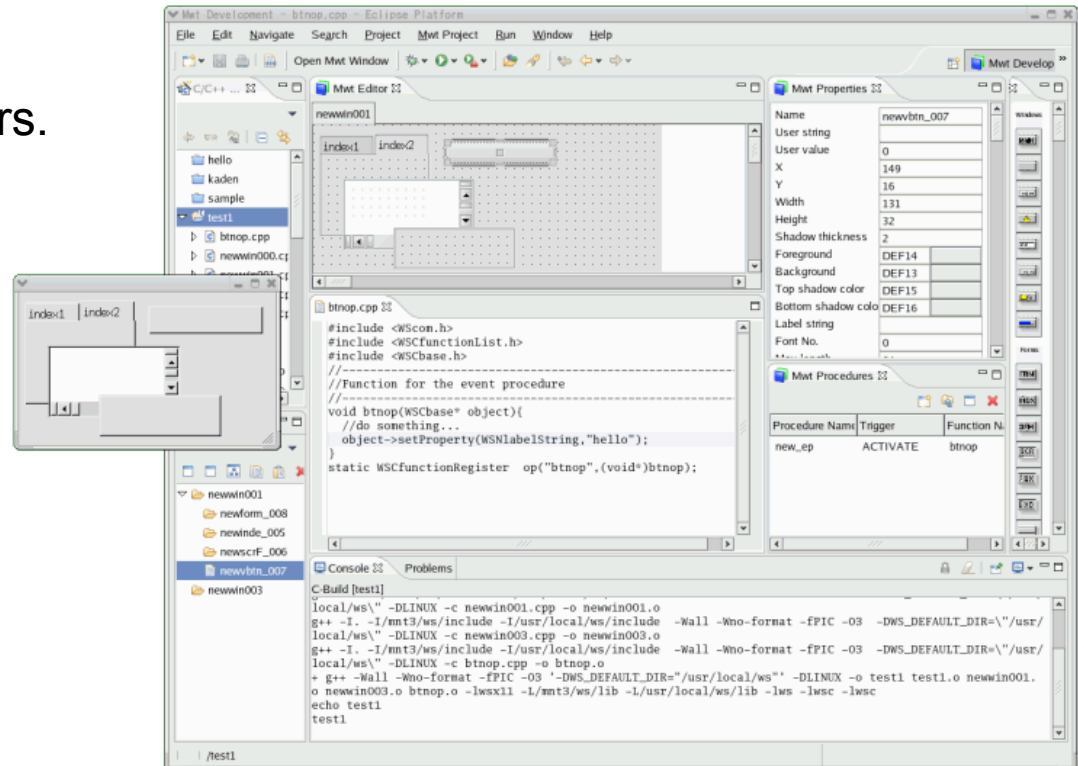
- Frameworks
 - Debugger Services Framework (DSF)
- Tools
 - GDB Debugger Integration using DSF
 - Traditional “embedded” memory view rendering
 - IP-XACT editor
- APIs
 - Stable and provisional APIs
- IP
 - Contributions have been through the IPZilla process where required.
 - IP log has been updated.
- Committer Diversity
 - (committers) WindRiver, Ericsson, ARM
 - (contributors) ST Microelectronics, TI



What is NAB

- To Create GUI Application Builder Frameworks and example tools
 - ♦ To Edit and Build C++ (or other languages) GUI Application on Eclipse.
 - supports C++ and java now
 - ♦ Supports variation of GUI Libraries.
 - supports MWT now
 - ♦ Write once, Build for many.
 - For embedded and others.

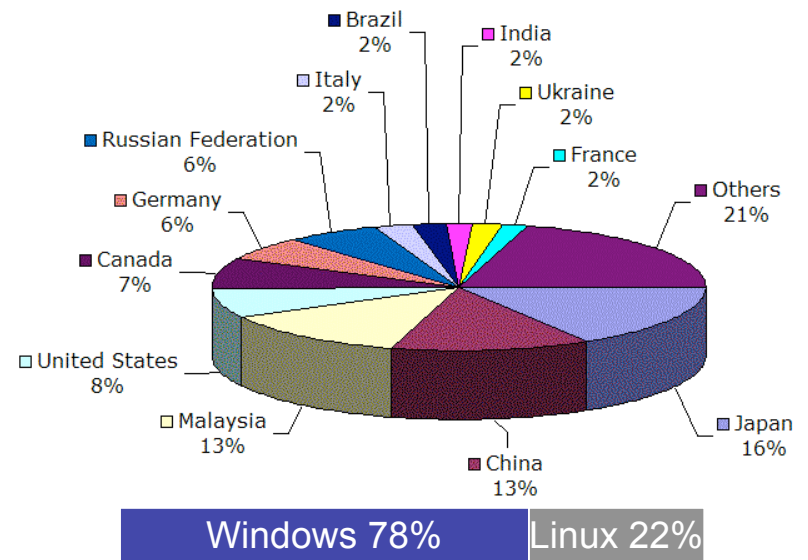
Supported Platforms of MWT	
OS	Windows, Linux, MacOSX, FreeBSD, Solaris, T-Engine, ITRON, BTRON
CPU	IA32, ARM, SH3/4, FRV, MIPS, PPC, SPARC
Graphics	X11, DirectFB, Frame Buffer, Win32, WinCE, T-Engine(T-Shell), MacOS





NAB Project Status and plan

- Almost complete implementation of Framework and Example tool.
 - ♦ Ready to release 1.0
- Now Release NAB-0.9.9 on Ganymede.
 - ♦ You can get it from NAB update site.
- Many Users
 - ♦ Total 8024 Downloads at Mar 19, 2008
- We are in 'Incubation Phase' now.
 - ♦ NAB project needs the participant committer/companies to graduate.





DSDP Target Management 3.0 Release Review Minideck

Eclipse Development Process version 2.3.1 – January 17, 2007
Slide deck v1 – May 27, 2008

Martin Oberhuber, Wind River
TM Project Lead

DSDP-TM 3.0 Features



- TM 3.0 New Features
 - Target Communication Protocol Framework (TCF) (incubation, contributed)
 - Windows CE RAPI wrappers and RSE Subsystems (incubation, contributed)
 - RSE Terminal Integration (incubation, contributed)
 - RSE User Actions and Compile Commands
 - RSE Import / Export of connections and profiles
 - Reduced plugin activation, improved startup behavior and performance
- API Quality:
 - Extensive use of API Tooling to get rid of API Leakage and document usage restrictions;
 - Continued API Review, documentation, refactoring
 - Without examples & tests: 935 API types / 1476 non-API (2.0: 828 API, 986 non-API)
 - Many Unit tests added
- TM 3.0 project size
 - RSE: 346 kLOC + TCF: 97 kLOC (R2.0: 290k, R1.0: 242k)



DSDP-TM 3.0 EOL and Community

- Non-Code Aspects
 - Full Documentation, Tutorials, FAQs, Example Code, ...
 - Detailed build notes with migration notes on each milestone
- End-of-Life issues:
 - Some API Refactoring (IFileService), but no EOL'd APIs, tools, concepts or components in 3.0
- Community and Committer Diversity:
 - 11 committers (5 WindRiver, 4 IBM, 1 ProSyst, 1 private) – was 8 in 2.0
 - 2 former committers, 23 additional contributors – was 5 in 2.0
 - 1 Google Summer of Code project this summer
 - Commercial adoption by at least 13 companies. Involvement with other Eclipse projects (Platform/Team, ECF, CDT, Orbit, EPP, PDT, Babel).
 - Well known and respected in the Community, part of JEE package
- Bugzilla
 - 3.0 Stream: 441 issues fixed, 671 open (2.0: 572 fixed / 301 open)

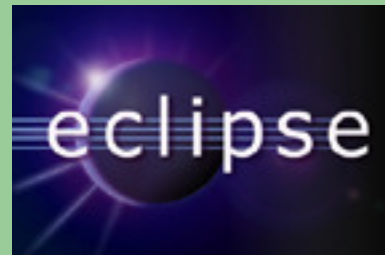
DSDP-TM 3.0 Process and Architecture



- Process
 - Full process docs on the Web; adopting Modeling build for Releng
- 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.
- Architectural Issues
 - Legacy code still not fully cleaned up – much Platform “internal” access
 - Need more UI / Non-UI separation for headless and RCP usage
 - Need more Unit Tests (hard 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, TCF, RSE IFileService
 - Talking with all those projects; absorbing / bridging
 - “Remote Development” effort is disconnected at IBM / PTP
- Future:
 - Likely shooting for TM 3.1 next year – Focus on Multicore, TCF

Eclipse Data Tools Platform (DTP) 1.6 Release Review Mini-deck

Eclipse DTP PMC
May 27, 2008





DTP 1.6 Themes

- Provide incremental feature improvements for all projects
- Additional enablement support
- Evolve the core frameworks past DTP 1.5
- Provide usability improvements for UI components
- Provide new functionality in the form of the SQL Query Builder UI component



DTP 1.6 Features: Some Examples

- Enablement
 - Sybase ASE model and catalog loader
- Core Connectivity
 - ODA integration with DB profiles
- SQL Query Builder
 - Contributed by IBM
 - Worked on by IBM & Sybase
 - Early adoption by BIRT
- Usability
 - Increased usability for adopters & users of DTP Connectivity UI frameworks
- Further stabilize the foundation of DTP by resolving as many bugs and *Discouraged Access* warnings as possible.
- Enhance user tools to make DTP a compelling choice for developing data centric applications in Eclipse.
- Make DTP easier to understand and leverage, from both the extender and user perspectives.
- Meet milestone dates in tight synchronization with Ganymede plans.



Architectural Issues

- Further integration of DTP models and components, including parser
- Streamlining of some DTP Connectivity models to simplify implementation and usage
- Increase number, depth and quality of exemplary and extensible tools going forward
- Pull code up into frameworks from Enablement as necessary



UI Usability

- SQL editor allows users to create, edit, and test SQL statements
- SQL routine editor allows for execution of stored procedures
- SQL query builder allows for graphical construction of SQL queries
- Connectivity components allow for using heterogeneous data sources



Community: Adoption

- “Community” page on DTP web site*
- Commercial Adoption
 - Sybase
 - Actuate
 - Nexaweb
 - Oracle
 - Ingres
- Open Source
 - BIRT
 - Jalcedo
 - JFire
 - NightLabs
 - WTP
- Standards
 - OMG for *Information Management Metamodel* (IMM)**
- Based on community feedback, estimating about 8 to 10 more commercial products in development using DTP

* <http://www.eclipse.org/datatools/community.html>

** <http://www.omg.org/cgi-bin/doc?ab/05-12-02>



Project Plan

- DTP 1.6 maintenance releases with Ganymede
- Two maintenance releases planned for 2008/2009
- Next major release will coincide with the next major platform release (e4 or otherwise)
- Additional releases will be considered based on community requests and readiness



ECF 2.0.0/Ganymede Summary

Noteworthy API: Discovery, Remote Services

New Providers: jSLP, r-OSGi, XMPP, JMS

New Exemplary Applications

- Shared Editing

- Many UI Improvements

- New UI: RosterView, DiscoveryView, extensibility

- Equinox Server Apps

- Examples Project Contributions (e.g. Multi-user Sudoku)

Noteworthy Community Development

- New Consumers: Equinox P2/SDK, Commercial vendors

- New Committers

- Many contributions

Future

- ECF Moving to New Runtime Project

- Shared Editing



Eclipse Project 3.4 Release Review

Eclipse Project PMC

Highlights



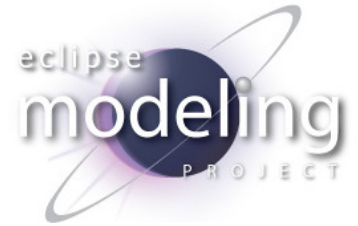
- 3.4 new features:
 - SWT 64-bit, Linux BiDi, Mac Carbon Internalization & accessibility, product level configurability, provisioning (p2), serviceability, API tooling, security, concurrent compiler and Eclipse 4.0 planning
- API quality:
 - High. 7 changes in porting guide.
 - Binary compatible for compliant plug-ins
 - 164 new API: Platform (105), JDT (50), PDE (5), Equinox (4)
 - 18 deprecated API: Platform (13), JDT (5)
 - 7 breaking changes: Platform (4), JDT (3)
- End-of-life issues:
 - `org.eclipse.apache` : was never an API
- 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:
 - 205 committers, 79 active in past 9 months
 - Organizations: IBM (62), Individuals (9), Prosyst Soft.(2), Embarcadero Tech. (1), Adobe (1), Code 9 (1), QNX Soft. (1), compeople AG (1), Wind River (1)
 - Geographies: Canada (40), USA (20), France (6), Switzerland (5), Poland (2), Bulgaria (2), Germany 2), Austria (1), Japan (1).
 - Commits: IBM (96.85%), Individuals (1.95%), Embarcadero Tech. (0.80%), Prosyst Soft. (0.19%), QNX Soft. (0.11%), compeople AG (0.10%)
 - Consumed by all other Eclipse projects



EMF Project Ganymede Simultaneous Release Mini Deck

June 4th, 2008





What is the EMF Project?

- The Eclipse Modeling Framework (EMF) Project is an Eclipse Modeling sub-project
 - <http://www.eclipse.org/modeling/emf/>
- The project hosts the EMF component and other closely related components that have graduated from EMFT (the EMF Technology project) or that are based on reliable and quality-proven technologies
- Committers currently from Embarcadero Technologies, IBM, and Zeligsoft in addition to individuals contributions



Current Components

EMF

EMF is a modeling framework and code generation facility for building tools and other applications based on a structured data model. From a model specification described in XML, EMF provides tools and runtime support to produce a set of Java classes for the model, a set of adapter classes that enable viewing and command-based editing of the model, and a basic editor. Models can be specified using annotated Java, XML documents, or modeling tools like Rational Rose, then imported into EMF. Most important of all, EMF provides the foundation for interoperability with other EMF-based tools and applications.

SDO

Service Data Objects (SDO) is a framework that simplifies and unifies data application development in a service oriented architecture (SOA). It supports and integrates XML and incorporates J2EE patterns and best practices. EMF includes an EMF-based implementation of Service Data Objects.

Teneo

Teneo is a database persistency solution for EMF using Hibernate or JPOX/JDO 2.0. It supports automatic creation of EMF to Relational Mappings. EMF Objects can be stored and retrieved using advanced queries (HQL or JDOQL).

Query

The query component provides capabilities to specify and execute queries against EMF model elements and their contents.

Transaction

The transaction component provides a model management layer built on top of EMF for managing EMF resources. It provides API that include extensions to the EditingDomain and related APIs of the EMF.Edit framework, and an internal model of transactions. It consists of two layers: a non-Eclipse core, providing primarily the "transaction model", and an Eclipse workspace integration layer.

Validation

The validation component provides capabilities used to ensure model integrity.





Ganymede Release Talking Points

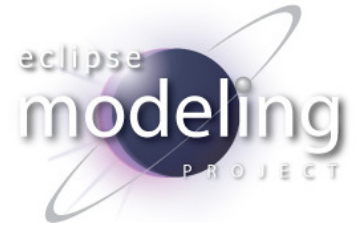
- Quality of APIs
 - The component lead certifies that the requirements for Eclipse Quality APIs have been met for this release
 - A few classes were marked as “provisional” (this is further detailed on the EMF presentation)
- End of Life Issues:
 - No significant deprecations, deletions, or other end-of-life changes
- IP Issues:
 - All significant contributions, non-Committer code contributions, and third-party libraries have received IP clearance
 - The IP Log is located at <http://www.eclipse.org/modeling/emf/eclipse-project-ip-log.php>



Ganymede Release Talking Points

- Committer Changes
 - Kenn Hussey now works for Embarcadero Technologies
 - Christian Damus now works for Zeligsoft
 - Martin Taal is now a committer as Teneo has been moved from EMFT to EMF





Legal Notices

- XMI is a trademark of the Object Management Group
- XML is a trademark of the World Wide Web Consortium; marks of W3C are registered and held by its host institutions MIT, ERCIM, and Keio
- Java and all Java-based trademarks are trademarks of Sun Microsystems, Inc. in the United States, other countries, or both
- Other company, product, or service names may be trademarks or service marks of others





EMF Compare 0.8.0 Ganymede Simultaneous Release

June 16th, 2008





Ganymede Release Talking Point

- Noteworthy New Features
 - 2 way / 3 way comparison detecting conflicts
 - differencing, merging and extensibility
 - diff export
- Quality of APIs
 - The component lead certifies that the requirements for Eclipse Quality APIs have been met for this release
 - A few classes were marked as “provisional” (this is further detailed in this presentation)
- End of Life Issues:
 - No significant deprecations, deletions, or other end-of-life changes
- IP Issues:
 - No significant contributions and has been integrated and the component do not use third-party libraries.
- Committer Changes





EMF Query, Transaction, Validation 1.2.0

Ganymede Simultaneous Release Review

4 June, 2008



Talking Points

- Query, Transaction, Validation 1.2.0 Themes (from EMF)
 - Built to Last
 - Release Currency
- The component lead certifies that the requirements for [Eclipse Quality](#) APIs have been met for this release
- End-of-life issues
 - No significant deprecations, deletions, or other end-of-life changes.
- All significant contributions, non-Committer code contributions, and third-party libraries have received IP clearance
- 1 committer from two companies (IBM, Zeligsoft) in one country (Canada)
- 6 contributors from four organizations (SAP, PrismTech, IBM, student, independent)



EMFT CDO 1.0.0

Ganymede Simultaneous Release

May 18th, 2008

EMFT CDO - Ganymede Release Talking Points

- Noteworthy New Features:
 - Network transfer of only deltas of changes ([201266](#))
 - Partial loading of collections ([201265](#))
 - Hibernate integration server-side ([217117](#))
- Quality of APIs
 - No “provisional” APIs, all non-API code in “internal” packages
- End of Life Issues:
 - None
- IP Issues:
 - None
- Committer Diversity
 - Second committer for Hibernate integration
 - Third committer election in progress



EMFT Ecore Tools 0.8 Ganymede Simultaneous Release Review

June 4th, 2008

Ganymede Release Talking Points



- Noteworthy features
 - Ecore diagram
 - Custom tabbed properties view
 - Model oriented outline
 - Analysis views
- Quality of APIs
 - The component lead certifies that the requirements for Eclipse Quality APIs have been met for this release
- End of Life Issues:
 - No significant deprecations, deletions, or other end-of-life changes
- IP Issues:
 - All significant contributions, non-Committer code contributions, and third-party libraries have received IP clearance



EMFT Mint (Incubation) 0.7 Ganymede Simultaneous Release Review

4 June, 2007



Agenda

- **Talking Points**
- Features
- Non-Code Aspects
- APIs
- Architectural Issues
- Tool Usability
- End-of-Life
- Bugzilla
- UI Usability
- Schedule
- Communities
- IP Issues
- Project Plan



Talking Points

- Initial release as EMFT component (incubation)
 - Utilizes Modeling Releng infrastructure
- The component lead certifies that the requirements for [Eclipse Quality](#) APIs have been met for this release
- No third-party code contributions received or libraries used in this release
- One committer from one company (Ecliptical Software Inc., Canada)



EMFT Net4j 1.0.0

Ganymede Simultaneous Release

May 18th, 2008

EMFT Net4j - Ganymede Release Talking Points

- Noteworthy New Features:
 - Challenge/response based negotiator ([205027](#))
- Quality of APIs
 - No “provisional” APIs, all non-API code in “internal” packages
- End of Life Issues:
 - None
- IP Issues:
 - None
- Committer Diversity
 - One committer
 - Working together with Scott Lewis (ECF) to integrate Net4j+ECF

EMF Search

v0.7.0 Release Review (Ganymede)

May 2008
<http://www.eclipse.org/modeling/emft/search>

Lucas Bigeardel (c) 2008

Key Features

- Ecore Integration
 - Search (Text, Regex & OCL)
 - Replace (Text, Regex)
- UML2 Integration
 - Search (Text, Regex & OCL)
 - Replace (Text, Regex)
- CodeGen Integration
 - Search (Text, Regex)
- Search/Replace Gen For Arbitrary Ecore Model
 - Only EString Eattributes ! (Help Wanted)

Misc Features

- Search Scopes
 - Workspace
 - FileSystem
 - HTTP
- RCP ready
 - UI/non UI (Conditional Results Page Update)
- Standalone example
 - EcoreGrep w/ textual command line support

Tooling Features

- Editor Navigations Integration
 - Open Ecore/UML2 (E)Package Dialog
 - Open Ecore/UML2 (E)Class Dialog
- Diagram Navigations Integration
 - Navigation from Result to Diagram Element
 - Ecore
 - UML2

Teneo Ganymede Mini Deck

May 16th, 2008



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What is Teneo?

Teneo is a database persistency solution for EMF using JPOX/JDO 2.0 or Hibernate.

It supports automatic creation of EMF to Relational Mappings and the related database schemas.

The solution contains a runtime layer to support specific EMF features. EMF Objects can be stored and retrieved using advanced queries (HQL or JDOQL).

EMF resource implementations are provided for integration with EMF Editors.

The persistence logic and mapping can be controlled using EJB3/JPA-like annotations. Most of the EJB3/JPA mapping standard is supported.



Features in this release

- Generation of (in-memory) JDO and Hibernate Mappings on the basis of ecore models
- Full coverage of JPA specification
- Extensive automatic JPA annotation generation
- Support for JPA annotations in the Model as Eannotations for manual override of default behavior
- Support for JPA model annotations in separate xml for manual override of default behavior
- Advanced Relational Resource Implementations
- Support for most (if not all) EMF Features
- Support for many XML Schema Constructs



Features in this release

- Support for Dynamic EMF Models
- Support for persisting Ecore Models
- Support and integration with GMF
- Implementation of Extension Mechanism for easy override of parts of Teneo
- Support for the EJB3 EntityManager



Miscellaneous

- Teneo is available for EMF 2.3/Eclipse 3.3 and EMF 2.4/Eclipse 3.4
- Support for Teneo is available on the EMFT newsgroup:
 - eclipse.technology.emft
- Future functionality
 - Teneo EclipseLink integration
 - Teneo CDO integration
 - Further support for standard and orm-specific JPA annotations
 - JPA Annotated Java code generation





EPP Version 1.0 One-Minute Summary

Markus Knauer, Innoopract
Eclipse Packaging Project Lead



EPP 1.0 Overview

EPP in version 1.0 includes

- a **packaging component** that uses the Eclipse Update Manager and the PDE packager
- **build scripts** that are used in the nightly package builds
- the **Usage Data Collector (UDC)**
 - that collects data on an Eclipse client, e.g. an EPP package and
 - sends the data back to the Eclipse Foundation servers and
 - will be included in all Ganymede packages



EPP Packages

- Package maintainers (Eclipse committers) are able to create and to define their own packages ('**community packages**')
- Europa packages (CPP, Java, JEE, RCP) have been redefined by their new maintainers
- **New community packages** have been defined
 - IDE for Software Architects and Modeling
 - IDE for Java and Report Developers
- The EPP build runs on the Eclipse Foundation infrastructure and creates **nightly builds and milestone builds**
- The **new packaging site** will list all current and future packages
 - <http://www.eclipse.org/downloads/packages/>



EPP Usage Data Collector (UDC)

The Eclipse Usage Data Collector monitors **what** is being used and **when**, including

- Loaded bundles
- Commands accessed via keyboard shortcuts
- Actions invoked via menus or toolbars
- Perspective changes
- View and Editor usage

Captured data is associated with a user through a combination of workstation and workspace ids that are automatically generated by the collector. This identification is not tied to any personal information about the user. Where possible, the usage data collector also captures the symbolic name and version of the bundle contributing the command/action/perspective/view/editor.



GEF Release Review 3.4

Anthony Hunter
IBM Rational Software, Ottawa

GEF - Ganymede Release Review Talking Points



- § Noteworthy new features.
 - § Redesigned UI for the GEF Palette.
 - § No API changes, modernized new palette for free.
 - § New Component Zest.
 - § Zest: The Eclipse Visualization Toolkit moved into GEF.
 - § Componentized GEF
 - § Now possible to download Draw2D as a separate download.
- § No API changes from GEF 3.3.
- § No End of life issues.
- § No IP clearance and license issues.



GMF 2.1.0.qualifier Ganymede Simultaneous Release

June 04, 2008

Release Review revision – no longer indicated on website
http://www.eclipse.org/projects/dev_process/development_process.php#6_3_3_Release_Review



GMF – Ganymede Release Talking Points

- Noteworthy New Features:
 - Diagram export and printing improvements
 - Diagram label improvements
 - Group/Ungroup functionality added
 - Diagram arrangement, alignment, and snap-to-grid improvements
 - Palette customizability added (along with new look & feel from GEF)
 - Tooling: improved form model for properties, etc. – used in graphical definition editor
 - Improved WYSIWYG figure editor
- Quality of APIs
 - Overall: no “provisional” APIs, all non-API code in “internal” packages
 - Experimental features in separate download
- End of Life Issues:
 - None
- IP Issues:
 - None
- Committer Diversity
 - Committers from Borland and IBM



QVT Operational 1.0 Mini-deck

June 04, 2008



What is QVT Operational?

- Model to Model transformation language
- QVT Operational component aims to provide a complete implementation of OMG standard specification
(MOF) 2.0 Query/View/Transformation
- This release implements a significant part of the OMG specification, enabling the users to write concise and effective model to model transformations.
- *QVT-Operational-SyntaxExecutable* conformance point of the specification is supported



QVT Features

- ✓ Ecore based meta-models
- ✓ Both dynamic and generated meta-models supported
- ✓ Transformation, libraries and modeltypes
- ✓ Mapping operation + mapping reuse facilities
- ✓ Helpers and queries
- ✓ Contextual and configuration properties
- ✓ Complete resolve expression family, including deferred resolution
- ✓ Inline instantiation
- ✓ Imperative iterators (including shorthands)
- ✓ Assertion, log expression
- ✓ While loop, switch expression
- ✓ QVT Standard Library

Tooling Features



- Project Builder and Nature
- QVT Source Code Editor
 - Syntax highlighting and coloring
 - Hyperlinks – go to definition or navigate to meta-model browser
 - Problem annotations and hovers
 - Structure folding
 - Outline view
 - Completion Templates
- Code completion
 - A rich set of meta-model and QVT element completion proposals
- Meta-model browser view
- QVT interpreter – runtime execution
- Launch configuration

Eclipse Model-to-Text (M2T) Project Mini-deck

Paul Elder, IBM Rational

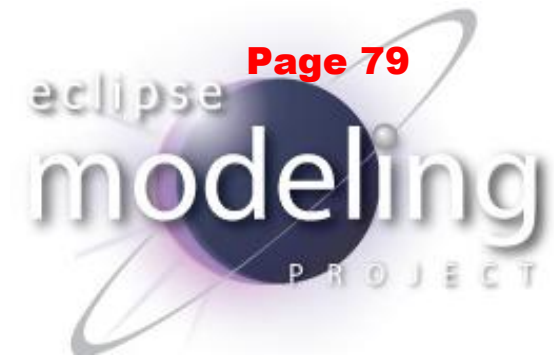
Model-to-text (M2T) Project Overview

- Goals
 - ◆ Provide implementations of industry standard and defacto Eclipse standard model-to-text engines
 - ◆ Provide exemplary development tools for these languages
 - ◆ Provide common infrastructure for this languages.
- Supported languages
 - ◆ JET – evolved from the EMF code generator language
 - ◆ Xpand – contributed from openArchitectureWare ⁽¹⁾
 - ◆ MTL – implementation of the OMG MOF-Models-to-Text specification ⁽¹⁾

(1) Xpand and MTL components are not releasing as part of Ganymeded

Why use M2T?

- How do you capture the knowledge of your experts?
 - ♦ Get them to train others
 - ♦ Get them to write articles and books
 - ♦ ...
- M2T provides an alternative
 - ♦ Capture abstractions in a 'model'
 - ♦ Generate artifacts from the 'model' using an M2T language
 - ♦ Such approaches can significantly increase the productivity of developers
- Examples:
 - ♦ EMF
 - ♦ GMF



Model Development Tools (MDT) Ganymede Simultaneous Release

June 4th, 2008

Model Development Tools (MDT)

- Model Development Tools (MDT) is an Eclipse [Modeling](http://www.eclipse.org/modeling/) sub-project at <http://www.eclipse.org/modeling/mdt/>
- Inspired by the Eclipse community's need for more end user "tooling" from the Modeling project
- Purpose of MDT is to provide extensible frameworks and exemplary tools for the metamodels within the scope of the Modeling project
- MDT consists of components: [BPMN2](#), [EODM](#), [IMM](#), [OCL](#), [OCL Tools](#), [SBVR](#), [UML2](#), [UML2 Tools](#), and [XSD](#)
- Project lead is [Kenn Hussey](#) (Embarcadero Technologies)
- Committers currently from [IBM](#), [Borland](#), [Embarcadero Technologies](#), [Adaptive](#), [XML™ Modeling](#), and [Soyatec](#)

MDT Ganymede Release Talking Points

- MDT Ganymede Themes
 - End-to-End MDSD
 - Improved Usability
 - Upgrade Path
 - Technology Trends
 - Ease of Use
- The project lead certifies that the requirements for [Eclipse Quality](#) APIs have been met for this release
- All significant contributions, non-committer code contributions, and third-party libraries have received IP clearance
- End-of-life issues
 - EODM component to undergo a continuation review due to inactivity
 - `http://www.eclipse.org/uml2/1.1.0/GenModel` namespace URI now obsolete, superseded by `http://www.eclipse.org/uml2/2.2.0/GenModel`
- 17 (15) committers from 8 (2) organizations in 5 (3) countries



Object Constraint Language (MDT OCL) 1.2.0 Ganymede Simultaneous Release Review

4 June, 2008



Talking Points

- OCL 1.2.0 Themes (from MDT)
 - End-to-End MDSD
 - Improved Usability
- The component lead certifies that the requirements for [Eclipse Quality](#) APIs have been met for this release
- End-of-life issues
 - No significant deprecations, deletions, or other end-of-life changes.
- All significant contributions, non-Committer code contributions, and third-party libraries have received IP clearance
- 1 committer from two companies (IBM, Zeligsoft) in one country (Canada)
- 4 contributors from four organizations (Thales, OpenCanarias, IBM, student)



Unified Modeling Language (MDT UML2) 2.2 Ganymede Simultaneous Release Review

4 June, 2008

Release Review revision – no longer indicated

[http://www.eclipse.org/projects/dev_process/development_process.php#6_3_3
_Release_Review](http://www.eclipse.org/projects/dev_process/development_process.php#6_3_3_Release_Review)



Talking Points

- UML2 2.2 Themes
 - End-to-End MDSD
 - Upgrade Path
 - Ease of Use
 - Technology Trends
- The project lead certifies that the requirements for *Eclipse Quality* APIs have been met for this release
- All significant contributions, non-Committer code contributions, and third-party libraries have received IP clearance
- 2 committers from two companies (Embarcadero Technologies, IBM) in one country (Canada)



MDT UML2Tools 0.8

Mini-deck

June 4, 2008



What is UML2Tools

- Set of diagram editors for Unified Modeling Language models
- UML2Tools component aims to provide a complete implementation of OMG standard [UML 2.1.2 specification](#)
- This release supports 2 behavior diagrams (Activity, State Machine) and 6 structure diagrams (Class, Component, Composite Structure, Deployment, Profile Definition, Use Case, Object diagram integrated to Class, Component, CompositeStructures diagrams)



UML features

- Uses metamodel from MDT UML2 component
- New diagrams:
 - ♦ Composite Structures
 - ♦ Deployment
 - ♦ Use Case
- Elements with tricky notation implemented:
 - ♦ Association Class
 - ♦ Provided Interface
 - ♦ Required Interface
 - ♦ Activity Partition
 - ♦ Applied Stereotype
 - ♦ ...



Tooling features

- Generated by using GMF
 - ♦ Provides GMF-Runtime features
- Highlight “incorrect” elements
- Label parsers
 - ♦ Label parsers were added to elements in accordance with UML 2.1 specification
 - ♦ Simple label parsers provide code-completion mechanism
- TreeViewer dialogs in property sheets
- Extended preferences pages
 - ♦ View Filters
 - ♦ Incorrect Elements Highlight Color
 - ♦ Icon Style



XSD 2.4.0 Ganymede Simultaneous Release

June 4th, 2008





Ganymede Release Talking Points

- Noteworthy New Features
 - Several performance and usability improvements, including
 - Reduction of the number of objects created when parsing a XSD file
 - Performance improvements when validating big elements
 - Reduction of the memory footprint due to the use of the packaged Enum feature introduced in EMF 2.4 (see bugzilla 226815 for details)
 - This information can also be seeing at
[http://wiki.eclipse.org/MDT_1.1_New_and_Noteworthy#XML_Schema_Definition_.28XSD.29_Component](http://wiki.eclipse.org/MDT_1.1_New_and_Noteworthy/XML_Schema_Definition_.28XSD.29_Component)





Ganymede Release Talking Points

- Quality of APIs
 - The component lead certifies that the requirements for Eclipse Quality APIs have been met for this release
- End of Life Issues:
 - No significant deprecations, deletions, or other end-of-life changes
- IP Issues:
 - All significant contributions, non-Committer code contributions, and third-party libraries have received IP clearance
- Committer Changes
 - None





ATL 2.0
Mini-deck

ATL PMC

ATL: ATLAS Transformation Language



- ATL : ATLAS Transformation Language
- ATL is a language and a Virtual Machine dedicated to model transformation
- ATL is an Eclipse Model-to-Model (M2M) component, inside of the Eclipse Modeling Project (EMP)
- ATL has been moved from GMT to M2M in 2007



Overview



- An Eclipse based IDE
 - Editor (syntax coloration, content assist)
 - Debugger
- A syntax adapted to Model To Model transformation
- A Virtual Machine
 - Executes ATL transformations pre-compiled into low level transformation-specific bytecode
 - Provides execution environment for any transformation language
 - The M2M QVT Relational project is based on the ATL Virtual Machine
[http://wiki.eclipse.org/M2M/Relational_QVT_Language_\(QVTR\)](http://wiki.eclipse.org/M2M/Relational_QVT_Language_(QVTR))
 - A use case implements a QVT Operational Mappings compiler
<http://www.eclipse.org/m2m/atl/usecases/QVT2ATLVM/>

Community



- Wiki-based FAQ, User Guide, and Tips & Tricks
- ATL Transformation Zoo (100+ scenarios, with contributions from the community)
- Complete use cases (20+, with contributions from the community)
- Articles
- Newsgroup : very active community, more than 2000 posts since its creation

- EclipseCon 2008 : tutorial

<http://www.eclipsecon.org/2008/index.php?page=sub/&id=402>

- Publications about ATL :

<http://www.eclipse.org/m2m/atl/publication.php>



Mylyn 3.0 Release Review

Mik Kersten

June 4, 2008

Schedule

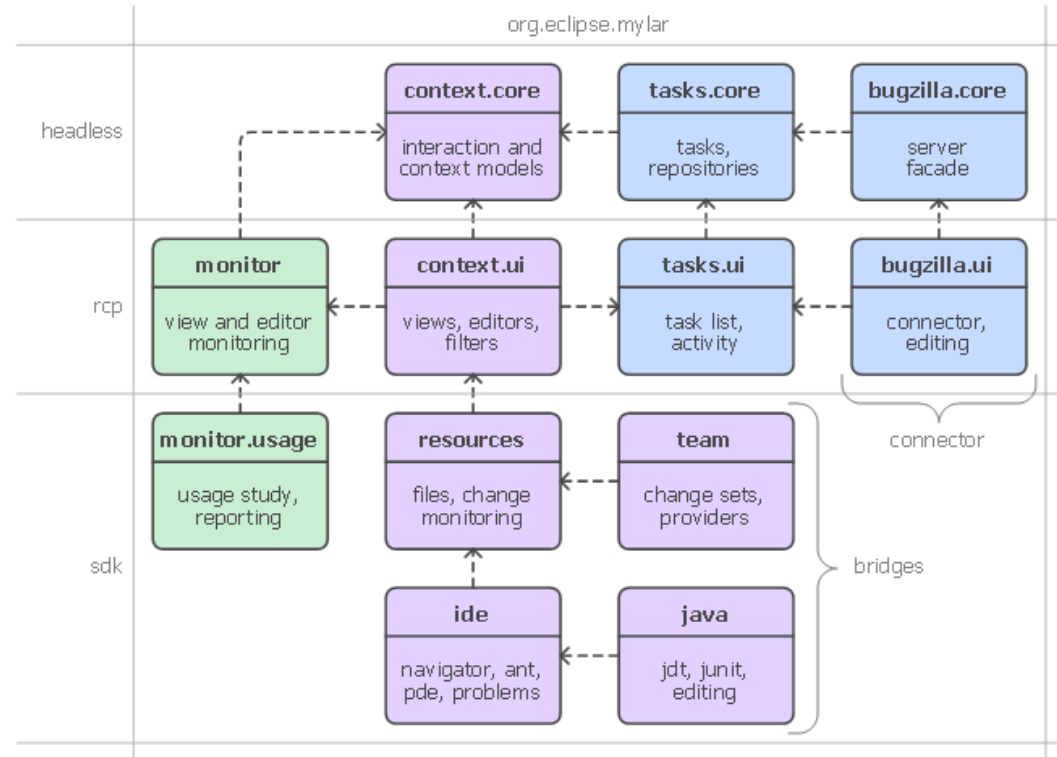


Release	Date	Platform Release	Notes
Mylyn 2.1M	August 27, 2007	Eclipse 3.3.0 and 3.4M1	
Mylyn 2.1	September 26, 2007	Eclipse 3.3.1 and 3.4M2	Europa Fall Maintenance
Mylyn 2.2M	November 7, 2007	Eclipse 3.3.1 and 3.4M3	
Mylyn 2.2	December 19, 2007	Eclipse 3.3.1 and 3.4M4	
Mylyn 2.3M	February 11, 2008	Eclipse 3.3.1 and 3.4M5	
Mylyn 2.3	February 27, 2008	Eclipse 3.3.2 and 3.4M5eh	Europa Winter Maintenance (Feb 29)
Mylyn 3.0RC1	May 21, 2008	Eclipse 3.4RC1	
Mylyn 3.0RC2	May 28, 2008	Eclipse 3.3.2 and 3.4RC2	
Mylyn 3.0RC3	June 4, 2008	Eclipse 3.3.2 and 3.4RC3	
Mylyn 3.0RC4	June 11, 2008	Eclipse 3.3.2 and 3.4RC4	
Mylyn 3.0	Jun 25, 2008	Eclipse 3.3.2 and 3.4.0	Ganymede Release

APIs



- Breaking API changes since Mylyn 2.3:
 - See: http://wiki.eclipse.org/Mylyn_Porting_Guide
 - Mylyn 2.3 supports Eclipse 3.4 and 3.3 (via separate streams)
- Frameworks:
 - Commons API
 - Context API
 - Tasks API
 - Monitor API
 - Team API
- Requires J2SE 1.5



Bugzilla



- Bugs resolved
 - Mylyn 3.0 (June 25, 2008): 315
 - Mylyn 2.3 (Feb. 27, 2008): 276
 - Mylyn 2.2 (Dec. 19, 2007): 384
 - Mylyn 2.1 (Sep. 28, 2007): 462
 - 228 bugs resolved via one or more contributor patches since 2.0



eclipse rich ajax platform project (RAP)

mission statement: rap enables developers to build rich, AJAX-enabled web applications by using the eclipse development model, plug-ins and a java-only api

RAP implements a subset of SWT, JFace, Workbench APIs

- is built on top of Equinox, running in server environments
- provides the Eclipse extension point mechanism
- enables single sourcing of rich client and rich internet apps
- uses the Qooxdoo JavaScript library for client side rendering in the browser

RAP enables

- coding in Java, developing the UI with SWT, JFace and Workbench extension points
- running the application on the server
- and accessing it with a browser

features



- broad coverage of SWT 3.4 apis
- broad coverage of Jface 3.4 apis
 - includes JFace databinding
- good coverage of Workbench 3.4 apis
 - `org.eclipse.ui.workbench`
 - `org.eclipse.ui.views`
 - `org.eclipse.ui.forms`
- tools for launching and automated testing (JUnit)

RAP in action



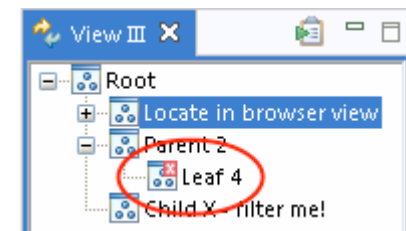
Browser window showing the RAP Demo application running at <http://127.0.0.1:10081/rap?startup=default>. The application has a menu bar (File, Window, Help) and a toolbar (Open wizard, Open new Browser View, About, Exit). The main content area displays a tree view (View I) and a text area (13443087.bar).

The tree view (View I) shows a hierarchy:

- Root
 - Locate in browser view
 - Parent 2
 - Child X - filter me!

The text area (13443087.bar) contains the text: "This is an example for the demo presentation implementation".

A Test Shell 1 window is also visible, displaying a pattern of blue and green squares.



SWT.INHERIT_NONE

Label	Push Button	<input type="radio"/> Radio Button	<input checked="" type="checkbox"/> Check Box	text
-------	-------------	------------------------------------	---	------

SWT.INHERIT_DEFAULT

Label	Push Button	<input type="radio"/> Radio Button	<input checked="" type="checkbox"/> Check Box	text
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Subversive Ganymede Review

Review date: 4 June 2008



Presentation prepared by: Igor Vinnykov (Polarion Software)
Send your feedback to: subversive-dev@eclipse.org



Introduction

- Subversive is an Eclipse Team Provider for Subversion (SVN). Subversive provides support for all operations available for SVN clients. It means that it can be used as a fully-functional SVN client and a replacement of the original SVN client.
- Subversive is Technology sub-project in Incubation phase:
 - Project home: www.eclipse.org/subversive
 - Subversive is a part of the Ganymede Simultaneous Release
 - Active users community: more than 2000 downloads per day; the project is in TOP 10 at EPIC
 - Active integrators community – integrations with 6 open-source and commercial tools: Mylyn, Buckminster, M2Eclipse, ProjectSet, FastTrack, Zend Studio
 - Bugzilla statistics: 246 closed items; 59 open items; 0 items with P1 or P2



New Features

- Checkout:
 - New option “Ignore Externals”
- Share:
 - Automatic project sharing
- Commit:
 - Spell checking
 - Displaying conflicted resources
 - New actions for resources
- History:
 - Compare revisions for folders
 - New action: “Extract”
 - Revision grouping
 - Support of local history
- Branches/Tags
 - Compare with branch/tag
 - Replace with branch/tag
- Properties:
 - Definition of custom properties
 - Property values validation
 - Support of “tsvn” properties
- Synchronize:
 - New action: “Extract”
 - “Local” and “Remote” submenus
 - Displaying incoming changes for folders
- Repository:
 - Override author’s name
- Patches:
 - Resources selection
 - Patch root selection
- Merge:
 - New “Merge” view



Project Plan

- Project plan available at: http://wiki.eclipse.org/Subversive_Plan
- Next release: 1.0 planned for June 10, 2008
- Next release goal: project graduation, inclusion of Subversive 1.0 into the Ganymede Simultaneous Release

TPTP 4.5 Release Review -- One Quick Foil

New and Improved

- IPv6 and Java 1.6.0 support
- Platform: Eliminate JVM activation on AC startup; editable property information in Method Statistics view
- Test: Parallel test suite execution; encrypted datapools; move, cut/copy/paste, delete, and rename of test assets
- Monitoring: Capability to re-face Log and Trace Analyzer; Java 5 annotations for Common Base Event and JMX instrumentation; Common Base Event v1.0.1 C# implementation
- Trace: Improved thread profiler; new profiler API for Java 1.5+; binary format for profiling traces



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.
 - We uncovered more latent opportunities to further improve stability

End-of-life issues in this release

- Moved to As-Is (no longer supported – help wanted):
 - Perfmon (monitoring agent and statistical views)
 - Manual Test (test type, runner, and Manual Test View)
 - BIRT Reports (test, log, trace, and statistical BIRT report generators)
 - RCP Log Analyzer and Symptom Catalog Editor
 - Automated GUI Recorder (AGR) (recorder, test type, and runner)
- Retired deprecated Technology Previews (X-Ray Profiler, Code Coverage, and Memory Manager)

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 (of course)
- Continue due diligence (Committer Agreements, PMC maintains list of non-EPL components, EMO source scan)

Diversity of the committer population & Openness of Community

- ~23 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
 - Bi-annual F-2-F Meetings: PMC+PG; Weekly Calls: PMC+PG, AG, Project
 - Open use of Bugzilla to track defects/enhancements; Visibility of nightly builds to community; Daily test reports published to web site

Web Tools Platform (WTP) 3.0

for the Ganymede Simultaneous Release Review

Brief Overview Review Materials

June 4, 2008

Prepared by David Williams and sub-project leads

Table of Contents

Introduction and Purpose.....	1
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APIs.....	2
Quality (Bugzilla).....	3
Communities.....	3
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Introduction and Purpose

This document is to fulfill the requirements of the [Eclipse Release Review](#)¹ for WTP 3.0 planned for release at the end of June, 2008. This is the brief, overview version of the full release materials.

WTP has been active for 4 years, with the first, 0.7, release in 2005. Over the years, WTP has grown (and reorganized) to consist of 10 subprojects: Common Tools, Dali (JPA), EJB Tools, Java EE Tools, JSF Tools, Server Tools, Source Editing, Web Services, Release Engineering, and several incubating projects and components (ATF, XSL).

Noteworthy Features added for this release

We document all our [new and noteworthy items](#)² for each milestone, for every release. The following summarizes the new functionality provided by each sub-project this release.

Common Components

- Facets
This release moved some provisional API to be API, and usability improvements made in the UI for selecting facets for projects.
- Validation Framework
Added improved preference and user settings. Provided official API this release.

Server Tools

- Several enhancements and improvements to existing functionality.

Source Editing

- JavaScript
A substantial improvement in JavaScript tools and editing was made in this release. It is a complete replacement for the previous component code with it's own name, JSDT, and already offers far greater functionality than the original component was ever designed to.
- For other languages (XML, HTML, JSP) made improvements in configurable validation and formatting.

¹ http://www.eclipse.org/projects/dev_process/release-review.php

² <http://www.eclipse.org/webtools/development/news/main.php>

Web Service Tools

- Several enhancements and improvements to existing functionality.
- Added ability to specify Quality of Service policies (WS-I compliance level).

JEE Tools

- New wizards for creating Web artifacts: Servlet Filters and Application Lifecycle Listeners
- Usability enhancements in the toolbar of the Java EE perspective
- EAR 5 Bundled Libraries support
- Java EE Deployment Descriptor nodes in the Project Navigator view
- Improved Java EE classpath management/UI
- Ability to read Java EE models from binary archives

EJB Tools

- New this release: New wizards for creating EJB 3.0 artifacts: Session Beans and Message-Driven Beans

JSF Tools

- Added support for alternate view description language for JSF
- Provide support for Apache MyFaces Trinidad components

Dali

- Added provisional API for JPA model
- Extensible persistence.xml Editor
- Many new wizards
- Generators on Entity (Type) level
- Project Explorer Content for JPA projects
- Support for adding JPA functionality to a Java project
- Added optional feature to support EclipseLink

APIs

We are aware that we (WTP) still do not provide enough APIs and still have too large a “provisional API debt” but are making progress on providing more API, this release some of the more significant areas being in Facets and Validation frameworks. We have also taken steps to improve our policy on “protected non-API”, published in [API Policy](#)³ document, that describes how we protect some non-API so that adopters can invest with some assurance of continuity, but also detail the limits to that policy, so that eventually we can provide complete API.

Another policy change this release which received a lot of discussion was our [Policy on Package Visibility](#)⁴. While there is controversy about this policy, it was requested by committers to not have an absolute policy requiring visibility but to allow them to use it as a design principle, just like 'protected', 'private', 'final' aspects of the Java Language. Adopters should “adopt early and adopt often” and file bugs if package visibility impacts them.

³ http://wiki.eclipse.org/WTP_API_Policy

⁴ http://wiki.eclipse.org/WTP_Policy_on_Package_Visibility

Quality (Bugzilla)

Our overall bug rate is approximately 80 resolutions per week, on average. We reduced our backlog by around 300 bugs (approximately), which is a reduction of 10% (approximately). The statistics in the following table reflect activity since the previous release (for the period July 1st, 2007 to May 20, 2008)

Bugs opened	3348
Bugs resolved	3639
Fixed	2321
Invalid	201
Wontfix	486
Duplicate	358
Worksforme	245
Not Eclipse	28

Communities

Committers and Contributors

We have a very diverse group of committers, from many companies, that sees a moderate amount of change over the years, (some people leaving, new people come on board). One way we encourage new committers is to have incubating projects, one of those, the XSL incubating component, is quite active.

End-User Community

WTP is one of the most popular downloads. Another way we contribute to the overall usefulness experience to Eclipse end-users is to participate in the EPP packaging project, by “owning” the JEE Developers IDE package. While we admittedly have not done as much in this area as we would have liked, we did expand the JEE Developers IDE to include RSE (Remote System Explorer) this release since it provides SSH/SFTP access to servers, which many web developers need in the course of their work.

Adopter Community

There are many, known adopters, both commercial, other Eclipse Projects, and other open source projects: IBM – Rational Application Developer BEA – WebLogic Workshop and WebLogic Studio, Eteration – Lomboz, Genuitec – MyEclipse, Innoopract – Yoxos, Exadel – Exadel Studio, JBoss – JBoss IDE, SAP – NetWeaver Studio, Borland

IP Issues

Our [Project IP log](http://www.eclipse.org/webtools/iprelated/ip_log.php)⁵ is complete and has been reviewed by Eclipse Legal. It includes:

- A list of third party software distributed with WTP, including information on the license and a link to the WTP CQ.
- The name of every committer for this release
- The name of every non-committer who contributed code via Bugzilla entries, with bug numbers.
- Dependencies on third party software that is not re-distributed with WTP.
In summary: Application Servers, Xdoclet, Axis2 runtime, JSF runtime and component libraries, JPA runtime

⁵ http://www.eclipse.org/webtools/iprelated/ip_log.php