

GMF 1.0 in the Callisto Simultaneous Release

May 26, 2006

Release Review version 032 – January 15, 2006

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GMF – APIs & Standards



API

- 1.0 Release, so all new (no end-of-life issues):
 - Either public or within 'internal' namespace (no "provisional")
 - No 'discouraged access' warnings (internal usage)
 - API change notification email to gmf-dev mailing list [runtime process]
 - Full javadoc and exsd, with guides/tutorials in Help
- Some metrics, as of 1.0RC3 (tooling & runtime):
 - 25 extension-points in 53 plugins
 - 1715 public classes comprising 299,154 LOC
 - 743 'internal' classes comprising 60,402 LOC
- Relevant standards (OMG):
 - In use:
 - OCL Object Constraint Language (<u>EMFT OCL</u>)
 - UML2 (Class & StateMachine diagram examples started)
 - Planned
 - QVT (for use in tooling model transformations)
 - Diagram Interchange Specification [#<u>114229</u>]



Checkpoint – Exiting Incubation

- ✓ A working and demonstrable code base
- ✓ Active communities:
 - Active plug-in provider community (10+ companies have confirmed usage)
 - Active tool user community (2471 newsgroup postings)
 - An active multi-organization community
 - 13 committers + 19 contributors from 2 organizations
- ✓ The project is operating fully in the open using open source rules of engagement
 - Full use of Bugzilla, newsgroups, mailing lists
 - Published development guidelines, FAQs, build process, etc.
- The project team members have learned the ropes and logistics of being an Eclipse project (the project "gets the Eclipse way")
 - Abides by Eclipse Development Process, posted guidelines, IP policies, open and transparent nature, etc.
- Now included in in Eclipse Modeling Project
 - GMF leverages EMF, GEF, EMFT OCL, Query, Transaction, Validation (works well with others ;-)
- GMF has or will appear at the following conferences (high interest @ eclipsecon):



GMF – IP Cleanliness



- About files and license files are complete and correct
 - [#<u>142272</u>] notice and epl_v10.html to be included in 1.0RC4 zips
- All significant and third-party contributions have been reviewed by Eclipse Legal
 - Apache Batik 1.6.0 (also used by WTP, TPTP, BIRT)
 - Apache Xerces 2.8.0 (maintained by WTP)
 - Initial IBM contribution (basis of GMF Runtime component) *
 - OCL, Query, Validation, Transaction have moved to EMFT
- Project log complete and has been reviewed by Eclipse Legal
 - The URL is <u>http://www.eclipse.org/gmf/development/gmf-log.csv</u>
- Contributor contact list maintained by Project Lead and sent to EMO
- * Awaiting final scan by Foundation



GMF Release Review

Backup Slides

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Features

- As 1.0 release, all are new:
 - <u>M3 New & Noteworthy</u>
 - M4 New & Noteworthy
 - M5 New & Noteworthy
 - M6 New & Noteworthy

Runtime Component Features



- A set of frameworks to help the development of Eclipse graphical editors:
 - Reusable components for graphical editors
 - A standardized model to describe diagram elements
 - Semantic and diagram models are distinct
 - Enables open and extensible graphical editors
 - Command infrastructure that bridges EMF and GEF
 - EMF provides a runtime infrastructure to instantiate and manipulate models (among other things)
 - GEF is an MVC-based framework to create graphical editors
 - Leverage various other technologies:
 - EMFT-Transaction, Validation, OCL
 - Apache Batik

Tooling Component Features



- Defined models for:
 - Graphical definition (canvas, figures, connections, etc.)
 - Tooling definition (palette, etc.)
 - Mapping definition (links graphical/tooling to domain model)
 - Generator model (generates diagram plug-in that leverages runtime)
- Wizards for graphical, tooling, and mapping models
- Bootstrapped ECore editor for EMF diagramming
- Experimental WYSIWYG graphical definition diagram
- Optional "lite" generation option
 - Pure-GEF/EFM implementation for lightweight/RCP diagrams

Project Milestones



- Project formed on April 14th, 2005
- Contribution Reviews from 12 organizations
- Kickoff Meeting week of July 17th, 2005 in Prague
- Plan Posted
 - Milestone Themes
 - M2 Clean
 - M3 Functional
 - M4 Bootstrapped [not fully achieved in 1.0]
 - M5 Ready to Hatch
- Requirements from <u>Website</u> → Bugzilla
- Joined Callisto release
- Migrated to Phoenix look & feel
- Became part of Eclipse Modeling Project
 - CVS, newsgroup, bugzilla migration following 1.0 release

Release Plan



✓ 1.0 M3
✓ 1.0 M4
✓ 1.0 M5
✓ 1.0 M6/RC0/RC1
✓ 1.0 RC2
✓ 1.0 RC3
■ 1.0 RC4
1.0 RC5
1.0 RC6

Nov 18, 2005 (M3 to align with others) Jan 13, 2006 (US/CA/RU holidays) Mar 03, 2006 Apr 14, 2006 May 05, 2006 May 19, 2006 May 31, 2006 June 20, 2006 June 28, 2006

Some date changes made to align with Callisto release

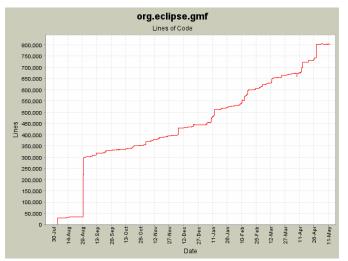
Development

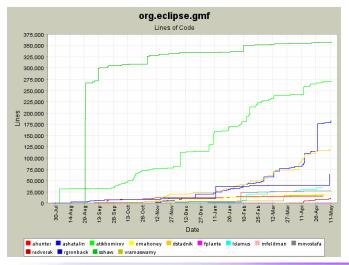


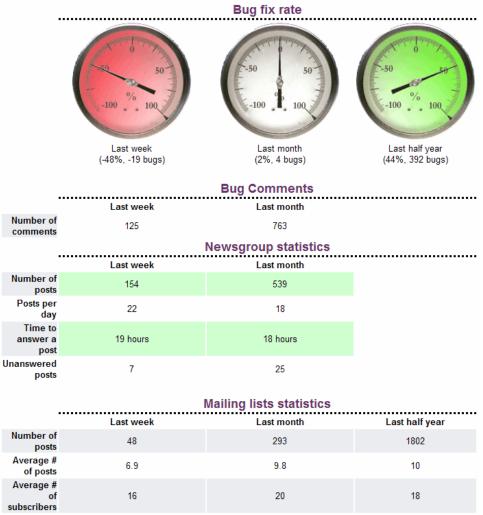
- Full use of bugzilla, newsgroup, mailing list
 - No regular teleconferences
- Continuous build system with 6 week milestones
 - CruiseControl & Update Manager based on PDE basebuilder
 - Build instructions posted
 - Build machine reporting <u>site</u> and build schedule <u>posted</u>
 - Dedicated gmf-releng mailing list
- Development Guidelines <u>posted</u>, covering:
 - CVS, coding standards, testing, workspace config, bugzilla, etc.
- API change notifications to gmf-dev mailing list

StatCVS and Dashboard View









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Documentation and Examples

- Help Contents:
 - Programmer's Guide (7 docs)
 - Tutorials (11 docs)
 - Examples Guide (5 docs)
- 5 Runtime example projects
 - Logic & geoshape diagrams, decorator, service, layout
- 5 Tooling example projects
 - Taipan, UML2 Class & State diagrams, ECore, Mindmap
- Introduction to Runtime on Eclipse Corner
- Mindmap Tutorial on Wiki
 - Cheat sheet in Help for part 1
- FAQ on Wiki

I18n, I10n, Accessibility



- Internationalization
 - GMF uses Eclipse i18n support
 - ICU4J used per Callisto requirements
- Localization
 - IBM to contribute language packs for GMF
- Accessibility
 - Nothing beyond standard Eclipse and GEF features

Bugzilla – Defect Statistics



- As of 05/17/06:
 - Total: 1424
 - New: 317
 - Assigned: 45
 - Reopened: 3
 - Resolved: 1004
 - Verified: 5
 - Closed: 50

		1.0 M3	1.0 M4	1.0 M5	1.0 M6	1.0 RC	1.0 RC2	1.0 RC3	Total
	blocker		2	<u>1</u>	<u>4</u>	<u>3</u>	•	2	<u>12</u>
	critical	<u>1</u>		<u>8</u>	<u>7</u>	<u>4</u>	2	<u>6</u>	<u>28</u>
	major	2	<u>5</u>	<u>13</u>	<u>27</u>	<u>25</u>	<u>5</u>	<u>6</u>	<u>83</u>
Severity	normal	<u>3</u>	<u>17</u>	<u>18</u>	<u>49</u>	<u>15</u>	•	<u>10</u>	<u>112</u>
	minor	<u>1</u>		2	<u>4</u>	2	•	•	<u>9</u>
	trivial				<u>1</u>		•	•	1
	enhancement	<u>13</u>	<u>22</u>	<u>47</u>	<u>13</u>	<u>5</u>		1	<u>101</u>
	Total	<u>20</u>	<u>46</u>	<u>89</u>	<u>105</u>	<u>54</u>	2	<u>25</u>	<u>346</u>

Target Milestone

Process: Community



- 13 Committers + 18 Contributors from 2 organizations
 - Newsgroup/User community represent numerous organizations
- Active in community, according to 'Liveness' measure
 - GMF typically in top 5 (when site up and project-info.xml correct ;-)
- Several organizations actively evaluating/using GMF in internal and commercial projects/products (names withheld)
- Visibility and Outreach
 - Blog at <u>http://eclipse-modeling.blogspot.com</u> (not so active)
 - Upcoming webinar with EMF (part of Callisto release & EMP)
 - GMF has been or will be presented at the following:



eclipse

Future Plan

- To be posted here: <u>http://wiki.eclipse.org/index.php/GMF_Project_Plan</u>
- Preliminary themes:
 - Quality API
 - Improved Performance
 - Become a Model[ing] Citizen
 - Broaden use of Standards
 - Improved Usability

Room to Improve



- Improve automation of IP Log [#<u>113717</u>]
 - Today, dependent on bug# in CVS log policy, with statCVS report
- Broaden contributor participation (beyond Borland & IBM)
 - Many parties interested, though without firm commitment yet
- No strict component ownership, though no cross-component development either
 - Need team exposure across tooling/runtime bounds