



GMF Restructure Proposal

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History

- The Eclipse Graphical Modeling Framework (GMF) provides a generative component and runtime infrastructure for developing graphical editors based on EMF and GEF.
- The GMF Project was formed in 2005 by Borland and IBM.
 - Borland contributed and managed the generative component:
 - GMF Tooling
 - IBM contributed and managed the runtime component:
 - GMF Runtime
- GMF has been released as part of every Eclipse simultaneous release (Callisto, Europa, Ganymede, Galileo and planned Helios simultaneous releases).

Graphiti



- The Graphiti project is a proposed open source project with a code contribution from SAP
- <http://www.eclipse.org/proposals/graphiti/>
- Also a graphical framework built on GEF and EMF.
 - Very similar to the GMF Runtime
- Graphiti is distinguished from the GMF Runtime in several ways:
 - Graphiti has a self contained API while the GMF Runtime makes use of and delegates to GEF API.
 - Graphiti has centralized (feature concept) client logic while the GMF Runtime is not constrained.
 - Graphiti has a standardized look and feel, while the GMF Runtime does not necessarily constrain to a specific set of UI features.



Graphiti (Cont.)

- The scope, architecture and dependencies of Graphiti align directly with the GMF Runtime.
- Given this fact, the new Graphiti project belongs in the same umbrella project as GMF.



GMF Concerns

- GMF currently restricted to one runtime and one tooling project.
 - Makes sense in terms of our project scope to allow multiple runtimes and multiple tooling projects.
 - **Expand the Graphical Modeling community at Eclipse**
- GMF can only have one project lead.
 - Even though since day one there was a project and committer split between GMF Tooling and GMF Runtime components.
 - Makes sense to split project between GMF Tooling and GMF Runtime
 - Clear leadership and committers for each.
 - Easier defect management, release management, etc.
 - Expand the community working in graphical modeling.
- Clients have requested a separate notational metamodel.
 - Notational metamodel is aligned with the OMG diagram exchange specifications.
 - GMF Runtime has separate features that deliver the notational metamodel, but end users have to extract manually.
 - Makes sense to create a separate sub-component so other projects can consume the notational metamodel without the rest of the GMF Runtime.



Graphical Modeling Project (GMP)

- The new Graphical Modeling Project (GMP) within the modeling top level project.
 - Provides generative components and runtime infrastructures for developing graphical editors based on EMF and GEF.
- The Existing GMF project will be restructured into GMP
- GMP will include:
 - GMF Tooling
 - GMF Runtime
 - GMF Notation
- Once GMF restructured into GMP, we will add:
 - Graphiti
- Plan to complete for the Helios release
 - Graphiti will be incubating.
- Binary compatibility with existing GMF releases will be maintained under the restructuring.



Graphical Modeling Project (GMP) (Cont.)

- Modeling.gmf
 - This project will no longer exist.
 - Source code will move into sub-projects under GMP.
 - Committers on GMF will become committers for one or more sub-projects of GMP.
- Modeling.gmp
 - Modeling.gmp will replace modeling.gmf.
 - Lead by Anthony Hunter (IBM)
 - GMP will have no committers, matching the standard of the other modeling projects (EMF, MDT, M2M, etc.).



GMP Sub-projects

- Modeling.gmp.gmftooling – GMF Tooling
 - Existing GMF Tooling Committers:
 - Artem Tikhomirov, Lead (independent)
 - Alexander Shatalin (independent)
 - Boris Blajer (independent)
 - Dmitry Stadnik (independent)
 - Radomil Dvorak (independent)
 - Anthony Hunter (IBM) (releng only for migration)
- `/cvsroot/modeling/org.eclipse.gmp/org.eclipse.gmf.tooling`



GMP Sub-projects (Cont.)

- Modeling.gmp.gmfruntime – GMF Runtime
 - Existing GMF Runtime Committers:
 - Anthony Hunter, lead (IBM)
 - Alex Boyko (IBM)
 - Cherie Revells (IBM)
 - Linda Damus (IBM)
 - Lidija Grahek (IBM)
 - Mariot Chauvin (Obeo)
 - James Bruck (IBM)
- /cvsroot/modeling/org.eclipse.gmp/org.eclipse.gmf.runtime
 - All the features and plugins are already named org.eclipse.gmf.runtime.*



GMP Sub-projects (Cont.)

- Modeling.gmp.gmfnotation – GMF Notation
 - Existing GMF Notation Committers:
 - Anthony Hunter, lead (IBM)
 - Alex Boyko (IBM)
 - Lidija Grahek (IBM)
 - James Bruck (IBM)
- /cvsroot/modeling/org.eclipse.gmp/org.eclipse.gmf.runtime.notation
 - All the features and plugins are already named org.eclipse.gmf.runtime.notation.*



GMP Sub-projects (Cont.)

- Modeling.gmp.graphiti – Graphiti
- See the project proposal:
 - <http://www.eclipse.org/proposals/graphiti/>

Graphical Modeling Project (GMP) (Cont.)



- Questions?