EMF CDO	1
EMF Compare	1
EMF EMF (Core)	1
EMF Teneo	1
EMF Validation	1
EMFT Doc2Model	1
EMFT Ecore Tools	1
EMFT Edapt	1
EMFT EEF	1
EMFT EGF	1
EMFT EMF Feature Model	1
EMFT EMF Refactor	1
EMFT Henshin	1
EMFT JCRM	1
EMFT MTF	1
EMFT MXF	1
EMFT Texo	1
GMP GMF	1
GMT Epsilon	1

GMT MoDisco	2
GMT UMLX	2
M2M ATL	2
M2M QVTd	2
M2M QVTo	2
M2T Acceleo	2
M2T JET	2
M2T Xpand	2
MDT BPMN2	2
MDT MST	2
MDT OCL	2
MDT Papyrus	2
MDT UML2	2
MDT UML2 Tools	2
MDT XSD	2
PMF	2
TMF Xtext	2

EMF CDO

Eclipse Modeling Framework Connected Data Objects

Overview

http://www.eclipse.org/modeling/emf/?project=cdo

CDO is both a technology for distributed shared EMF models and a fast server-based O/R mapping solution. With CDO you can easily enhance your existing models in such a way that saving a resource transparently commits the applied changes to a relational database. Optionally other connected clients are actively notified about these changes so that their model copies get partially invalidated and all user interfaces reflect the current state at once. Stored resources are demand-loaded from the database only as needed. CDO uses the Net4j technology as a flexible and scalable signalling backbone.

Licensing

http://www.ohloh.net/p/8908/analyses/latest

Eclipse Public License 2299 files
Platforms / Languages
http://www.ohloh.net/p/8908/analyses/latest

 Java
 66%

 Java
 66%

 ML
 25%

 XML
 8%

 Other
 1%

Home Page: <u>http://www.eclipse.org/modeling/emf/?project=cdo</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emf.cdo</u> Wiki Page: <u>http://wiki.eclipse.org/CDO</u>

Predictability

Release Train? Yes http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.emf.cdo</u> New & Noteworthy: N/A Release Notes: <u>http://www.eclipse.org/modeling/emf/news/relnotes.php?project=cdo&version=HEAD</u>

Release Timeline

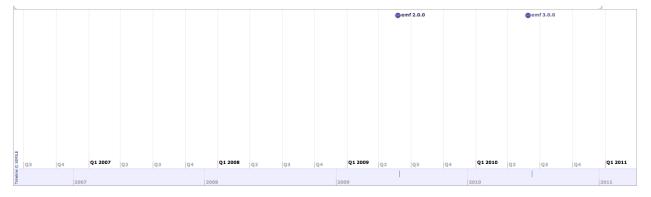
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emf.cdo



The Eclipse update site for this project is http://download.eclipse.org/releases/helios/.

- 3.0.0: 2010-06-28 planned
- 2.0.0: 2009-06-24 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emf.cdo

Lead(s)

Eike Stepper, individual

Committers

Caspar De Groot, individual André Dietisheim, Puzzle ITC GmbH Martin Fluegge, individual Simon Mc Duff, individual Victor Roldan Betancort, individual Ibrahim Sallam, Objectivity Inc. Eike Stepper, individual Martin Taal, individual Stefan Winkler, individual

Mailing List: http://dev.eclipse.org/mhonarc/lists/emf-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emf.cdo

		by	login		b	y 3-6-9	month	activity			
	one	three	six	nine		one	three	six	nine	(9-6-3)	
adietisheim		7,574	7,574	12,098	adietisheim		7,574	7,574	12,098		G
cdegroot	221	3,166	3,166	3,166	cdegroot	221	3,166	3,166	3,166		ri
estepper	69,347	97,935	108,846	193,834	estepper	69,347	97,935	108,846	193,834		by sl
isallam					mfluegge	120	9,331	9,779	9,779		d
mfluegge	120	9,331	9,779	9,779	mtaal	2,897	3,321	3,771	7,067		n
mtaal	2,897	3,321	3,771	7,067	swinkler	1,276	9,946	10,648	12,092		a
*nickb					vroldanbet	140	340	4,017	6,283		C
smcduff			282	311	smcduff			282	311		
swinkler	1,276	9,946	10,648	12,092	isallam						
vroldanbet	140	340	4,017	6,283	*nickb						

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emf.cdo

Company	С	Active ommitters		nactive mmitters	С	Total ommitters	Percent Active		mmits 2010)			Approx. LOC per Commit
individual	6	(85.71%)	1	(50%)	7	(77.78%)	85.71%	6,879	(99.96%)	114,601	(93.84%)	17
PuzzleITCGmbH	1	(14.29%)	0	(0%)	1	(11.11%)	100%	3	(0.04%)	7,528	(6.16%)	2509
Total	7		2		9			6,882		122,129		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		PuzzleITCGmbH									1%	6%
modeling.emf.cdo		RedHatInc.						4%	1%	1%		
	$\mathbf{\nabla}$	<u>individual</u>						95%	99%	99%	98%	93%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		PuzzleITCGmbH									12%	14%
modeling.emf.cdo		RedHatInc.						50%	33%	16%		
		individual						50%	66%	83%	87%	85%

User Community

EMF CDO is widely used by the modeling community, in particular as a runtime technology in various high-end products.

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

Usage in development tools is also expanding these days.

Learning

Documentation: http://wiki.eclipse.org/CDO

Training http://esc-net.de/

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.tools.emf</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMF&component=CDO</u>

Consulting

http://esc-net.de/

Customizability

CDO is a pure Java. All the components on a CDO server, as well as on a CDO client, are implemented in Java and do not necessarily require OSGi to be running. They all implement separate public API and SPI, hence the default implementation of CDO is completely customizable by overriding selected methods or replacing it with custom implementations.

Extensibility

CDO is extensible for the same reasons it is customizable (see above).

Scalability

CDO is, from the ground up, written with processing mass data in mind. Almost all the functionality that CDO offers is designed and implemented to scale very well with the size of a repository. Features like lazy containment loading, partial collection loading, and adaptive prefetching of objects are good examples. Furthermore, CDO is unique in supporting transparent unloading of unneeded objects on the client side and making them reclaimable by the Java garbage collector. As a result, CDO is probably the only solution that allows for processing of huge models.

Usability

The current state of CDO implies significant knowledge of underlying technologies and standards such as EMF. To minimize the cognitive load on users the committers provide examples, tutorials, wikis and respond in newsgroups.

Interoperability

CDO is highly integrated with EMF, EMF Teneo, GMF, Net4j and Eclipse Team.

Dependencies

http://www.eclipse.org/modeling/emf/downloads/?project=cdo

Eclipse EMF EMF (Core) EMF Net4j EMF Teneo

Standards

None.

EMF Compare

Eclipse Modeling Framework Compare

Overview

http://www.eclipse.org/modeling/emf/?project=compare

EMF Compare brings model comparison to the EMF framework, this tool provides generic support for any kind of metamodel in order to compare and merge models. The objectives of this component are to provide a stable and efficient generic implementation of model comparison and to provide an extensible framework for specific needs.

Licensing

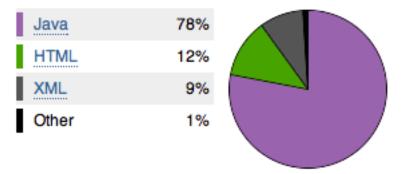
http://www.ohloh.net/p/emf_compare/analyses/latest

Eclipse Public License

448 files

Platforms / Languages

http://www.ohloh.net/p/emf_compare/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/emf/?project=compare</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emf.compare</u> Wiki Page: <u>http://wiki.eclipse.org/EMF_Compare</u>

Predictability

Release Train? Yes http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: http://www.eclipse.org/projects/project-plan.php?projectid=modeling.emf.compare New & Noteworthy: http://www.eclipse.org/projects/project-plan.php?projectid=modeling.emf.compare New & Noteworthy: http://www.eclipse.org/EMF_Compare_1.1.0_New_And_Noteworthy Release Notes: http://www.eclipse.org/modeling/emf/news/relnotes.php?project=compare&version=HEAD

Release Timeline

http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emf.compare

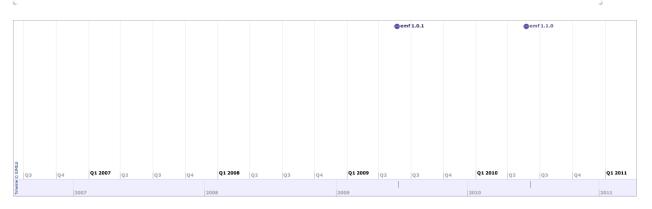


The Eclipse update site for this project is /modeling/emf/updates/releases/.

1.1.0: 2010-06-23 planned 🛛 💌

1.0.1: 2009-06-22 completed 💽 属

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emf.compare

Lead(s)

Cedric Brun, Obeo

Committers

Cedric Brun, Obeo Moritz Eysholdt, itemis AG Laurent Goubet, Obeo Jonathan Musset, Obeo

Mailing List: http://dev.eclipse.org/mhonarc/lists/emf-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emf.compare

		by	login		by 3-6	-9 n	nonth	activit	y
	one	three	six	nine		one	three	six	nine
orun				29	lgoubet	197	2,223	4,272	4,803
usset					cbrun				29
oubet	197	2,223	4,272	4,803	meysholdt				7,500
eysholdt				7,500	jmusset				
ckb					*nickb				

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emf.compare

Company	-	Active nmitters		nactive mmitters	Co				 Approx. LOC per Commit
OBEO							11 (100%)	-	
Total	1		4		5		11	197	

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		<u>OBEO</u>							99%	100%	72%	100%
modeling.emf.compare		RedHatInc.							1%			
		itemisAG									27%	

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		<u>OBEO</u>							75%	100%	66%	100%
modeling.emf.compare		RedHatInc.							25%			
	$\mathbf{\nabla}$	itemisAG									33%	

User Community

The user community for EMF Compare includes users of EMF as a modeling tool.

Downloads (Jul 1, 2009 - Mar 1, 2010)



Downloads (Jul 1, 2008 - Jun 30, 2009)



Adopter Community

EMF Compare is used by other Eclipse project as a utility for unit-testing (comparing expected result with computed result) and in big IT and industrial companies as the support for their model evolution tooling.

Learning

Documentation: http://wiki.eclipse.org/EMF_Compare

Training

http://www.obeo.fr/pages/training/en

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.tools.emf</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMF&component=Compare</u>

Consulting

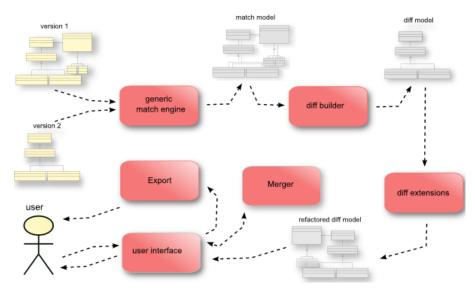
http://www.obeo.fr/pages/mda-and-productivity/en

Customizability

EMF Compare supports customizability through the use of extensible components and through the "Diff Extension" mechanism which allows an adopter to specify is own kind of differences.

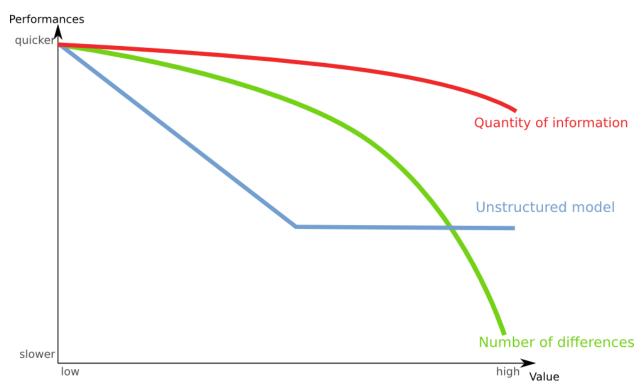
Extensibility

The parts highlighted in red in the following diagram are extensible.



Scalability

EMF Compare memory footprint is important as it's loading 2 versions of the whole models plus Match and Diff models. The Match model has a size which is a ratio of the compared models and the Diff model footprint is parameterized by the number of differences.



Usability

Once activated, you can compare your file (locally or from any Configuration Management System supported by the Team API) using the "compare with" menu in Eclipse.

Structural differences		(4) 🛙
(I) Edenenetype has been removed		
🗸 🚰 1 change(s) in ToolGroupItem		
🕮 Attribute name in ToolGroupItem has changed from ToolGroupItem to GenMeasu	surable	1)
🕨 璹 8 change(s) in aNewPackage	(.,
🕨 🔄 21 change(s) in aNewPackagel		
🕨 🔁 4 change(s) in Separator		
🕨 🔁 6 change(s) in ToolGroup		
🕨 🔁 2 change(s) in GenElementInitializer		
🕨 🔁 1 change(s) in GenFeatureSeqInitializer		
🕨 🔁 1 change(s) in GenFeatureValueSpec		
) E Mad		oves.eco
▶ ∰ groups : ToolGroup (2) ► □ packageName : EString (2)		oves.eco (3)
▶ ∰ groups : ToolGroup (2) ▶ □ packageName : EString > 目 Type ▶ □ factoryClassName : EString ▼ □ Type	lelFacet elModelFacet -> ModelFacet	
	lelFacet elModelFacet -> ModelFacet eModelFacet -> ModelFacet	
	delFacet elModelFacet -> ModelFacet eModelFacet -> ModelFacet GenModel	
▶ : groups : ToolGroup (2) ▶ □ packageName : EString > □ factoryClassName : EString ▶ □ factoryClassName : EString > □ ToplEntryBase > □ ToolEntry -> EntryBase, ToolGroupItem > ⊕ is	delFacet elModelFacet -> ModelFacet eModelFacet -> ModelFacet GenModel ModelFacet	
> □ packageName : EString > □ factoryClassName : EString > □ factoryClassName : EString > □ factoryClassName : EString > □ factoryClassName : EString > □ factoryClassName : EString > □ factoryClassName : EString > □ factoryClassName : EString > □ foolEntry -> EntryBase. ToolGroupItem > □ m > □ Separator -> ToolGroupItem > □ m > □ ToolGroup -> EntryBase, ToolGroupItem > □ m	delFacet elModelFacet -> ModelFacet eModelFacet -> ModelFacet GenModel 4odelFacet sPhantomElement() : EBoolean metaClass : null containmentMetaFeature : null	
 Image: second second	delFacet elModelFacet -> ModelFacet eModelFacet -> ModelFacet GenModel ModelFacet sPhantomElement() : EBoolean metaClass : null containmentMetaFeature : null childMetaFeature : null	
 packageName : EString i factoryClassName : EString i EntryBase ToolEntry -> EntryBase, ToolGroupItem i Separator -> ToolGroupItem i GenElementInitializer i GenFeatureSeqInitializer -> GenElementInitializer 	delFacet elModelFacet -> ModelFacet eModelFacet -> ModelFacet SenModel ModelFacet sPhantomElement() : EBoolean metaClass : null containmentMetaFeature : null childMetaFeature : null modelElementSelector : GenConstraint	
 , groups : ToolGroup , packageName : EString , factoryClassName : EString , factoryClassName : EString , foolGroupItane , ToolGroupItem , Separator -> ToolGroupItem , GenElementInitializer , GenFeatureSeqInitializer -> GenElementInitializer , GenFeatureValueSpec -> ValueExpression 	delFacet elModelFacet -> ModelFacet eModelFacet -> ModelFacet GenModel ModelFacet sPhantomElement() : EBoolean metaClass : null containmentMetaFeature : null childMetaFeature : null modelElementSelector : GenConstraint modelElementInitializer	
 , groups : ToolGroup , a packageName : EString , a factoryClassName : Estring , a factoryC	delFacet elModelFacet -> ModelFacet eModelFacet -> ModelFacet SenModel ModelFacet sPhantomElement() : EBoolean metaClass : null containmentMetaFeature : null childMetaFeature : null modelElementSelector : GenConstraint	

The following areas are highlighted in the image above:

- 1. The Diff model displaying all the differences found on the models
- 2. The version 1 model
- 3. The version 2 model
- 4. The "export differences" button
- 5. Move to next/Move to previous difference
- 6. Merge the current difference (left to right or right to left)
- 7. Merge all non conflicting differences (left to right or right to left)
- 8. Display properties differences

Interoperability

EMF Compare is interoperable with any EMF-based model.

Dependencies

http://www.eclipse.org/modeling/emf/downloads/?project=compare

Eclipse EMF EMF (Core) Subversive

Standards

None.

EMF EMF (Core)

Eclipse Modeling Framework EMF Core

Overview

http://www.eclipse.org/modeling/emf/?project=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 XMI, 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.

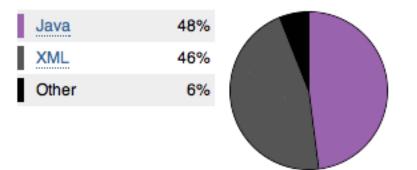
Licensing

http://www.ohloh.net/p/3509/analyses/latest

Eclipse Public License	3267 files
Common Public License 1.0	71 files
Apache Software License	5 files

Platforms / Languages

http://www.ohloh.net/p/3509/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/emf/?project=emf</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emf.emf</u> Wiki Page: <u>http://wiki.eclipse.org/EMF</u>

Predictability

Release Train? Yes

http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.emf.emf</u> New & Noteworthy: <u>http://wiki.eclipse.org/EMF/New_and_Noteworthy/Helios</u> Release Notes: <u>http://www.eclipse.org/modeling/emf/news/relnotes.php?project=emf&version=HEAD</u>

Release Timeline

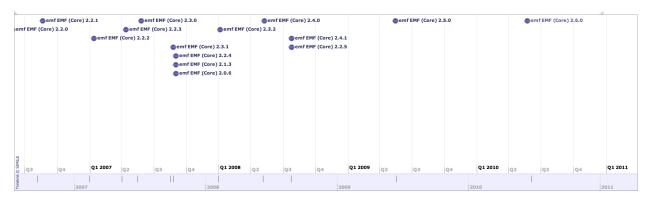
Releases

http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emf.emf

The Eclipse update site for this project is http://download.eclipse.org/modeling/emf/updates/releases/.

EMF (Core) 2.6.0: 2010-06-23 planned 🛛 🗐 📓
EMF (Core) 2.5.0: 2009-06-15 completed 🛒
EMF (Core) 2.4.1: 2008-08-25 completed
EMF (Core) 2.4.0: 2008-06-09 completed 🛒 📄
EMF (Core) 2.3.2: 2008-02-05 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emf.emf

Lead(s)

Ed Merks, individual

Committers

Nick Boldt, Red Hat Inc. Kenn Hussey, individual Ed Merks, individual Marcelo Paternostro, IBM David Steinberg, IBM

Mailing List: http://dev.eclipse.org/mhonarc/lists/emf-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emf.emf

		by	login		by 3						
	one	three	six	nine		one	three	six	nine	(9-6-3)	
*bportier					davidms		82	483	23,551		(
davidms		82	483	23,551	emerks	1,215	1,380	3,063	3,259		I
*elena					khussey		18	18,591	18,613		1
emerks	1,215	1,380	3,063	3,259	nickb	598	1,819	3,790	6,161		
*fbudinsky					*tschindl		514	514	4,654		1
khussey		18	18,591	18,613	marcelop				831		1
marcelop				831	*bportier						(
nickb	598	1,819	3,790	6,161	*elena						
*tschindl		514	514	4,654	*fbudinsky						

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emf.emf

Company	Co	Active mmitters		Inactive ommitters	Co						of Code 2010)	Approx. LOC per Commit
IBM	1	(33.33%)	3	(50%)	4	(44.44%)	25%	2	(2.13%)	4	(0.19%)	2
individual	1	(33.33%)	2	(33.33%)	3	(33.33%)	33.33%	85	(90.43%)	1,240	(59.47%)	15
RedHatInc.	1	(33.33%)	0	(0%)	1	(11.11%)	100%	7	(7.45%)	841	(40.34%)	120
Total	3		6		9			94		2,085		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		BestSolution									5%	
modeling.emf.emf		<u>IBM</u>				45%	27%	57%	21%	29%	42%	1%
modening.enii.enii		RedHatInc.				26%	31%	12%	32%	35%	14%	40%
		<u>individual</u>				27%	40%	30%	45%	35%	37%	59%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		BestSolution									16%	
modeling.emf.emf		<u>IBM</u>				57%	42%	50%	40%	40%	33%	33%
modeling.emi.emi		RedHatInc.				14%	14%	16%	20%	20%	16%	33%
		individual				28%	42%	33%	40%	40%	33%	33%

User Community

EMF has a well established user community. The EMF book has published a second expanded edition. The newsgroup is very active.

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

EMF is widely used by other projects at Eclipse. It is always among Eclipse's most popular projects. Eclipse Summit Europe 2009's survey indicated it was second only to the Java Development Tools in terms of usage by Eclipse users.

Learning

Documentation: http://www.eclipse.org/modeling/emf/docs/

Training

http://www.macromodeling.com/ http://www.opcoach.com/en/Training_Courses.html http://www.opcoach.com/en/Training/en http://www.obeo.fr/pages/training/en http://www.itemis.com/itemis-ag/language=en/2642/education-and-coaching http://www.inferdata.com/training/eclipse.html http://www.ancitconsulting.com/elearning.htm http://www.ancitconsulting.com/elearning.htm http://www.eclipse-training.net/ http://www.eclipseuniversity.org/ http://www.elver.org/services/index.html http://www.elver.org/services/index.html http://www.cypal.in/training http://eclipsegang.com/ http://www.sierrawireless.com/productsandservices/AirVantage.aspx http://www.industrial-tsi.com/index.php?id=139

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.tools.emf</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMF&component=Core</u>

Consulting

http://www.macromodeling.com/ http://www.committerati.com/ http://www.opcoach.com/en/Consulting.html http://www.obeo.fr/pages/mda-and-productivity/en http://www.itemis.com/itemis-ag/language=en/2621/portfolio http://www.inferdata.com/consult/index.html http://www.ancitconsulting.com/project.htm http://www.eclipseuniversity.org/serviceseclipse.htm http://www.elver.org/services/index.html http://eclipsegang.com/ http://www.sierrawireless.com/productsandservices/AirVantage.aspx http://www.industrial-tsi.com/index.php?id=139

Customizability

Many different tools can be built around and using EMF. It does not dictate any particular development process.

Extensibility

EMF is the core of a very large extend framework. As such it's proven itself as highly extensible.

Scalability

EMF provides minimal footprint implementation classes that scale well. For example, EMF instances are generally much smaller than corresponding DOM instances for the same XML instance. The extended framework around EMF, e.g., CDO, supports working with instances larger than can be contained in the heap.

Usability

EMF's tools are relatively crude. The framework is very powerful and relatively challenging to use effectively, though simple things are simple to do.

Interoperability

EMF supports interoperability with the OMG's EMOF. Ecore is isomorphic to EMOF and EMF can serialize Ecore to EMOF and deserialize Ecore from EMOF.

Dependencies

http://www.eclipse.org/modeling/emf/downloads/?project=emf

Eclipse

Standards Meta Object Facility (MOF) XML Metadata Interchange (XMI)

EMF Teneo

Eclipse Modeling Framework Teneo Model Relational Mapping

Overview

http://www.eclipse.org/modeling/emf/?project=cdo

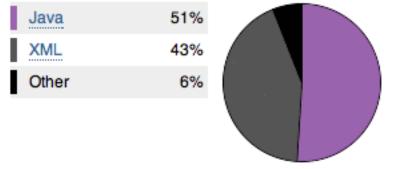
Teneo is a database persistency solution for EMF using <u>Eclipselink</u> or <u>Hibernate</u>. It supports automatic creation of EMF to Relational Mappings and the related database schemas. The solution contains a runtime layer to support specific EMF features. EMF Objects can be stored and retrieved using advanced queries (HQL or EJB-QL). 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.

Licensing

https://www.ohloh.net/p/emf-teneo/analyses/latest

 Eclipse Public License
 805 files

 Platforms / Languages
 https://www.ohloh.net/p/emf-teneo/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/emf/?project=teneo</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emf.teneo</u> Wiki Page: <u>http://wiki.eclipse.org/EMF/Teneo/EclipseLink_JPA</u>

Predictability

Release Train? Yes http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.emf.teneo</u> New & Noteworthy: N/A Release Notes: <u>http://www.eclipse.org/modeling/emf/news/relnotes.php?project=teneo&version=HEAD</u>

Release Timeline

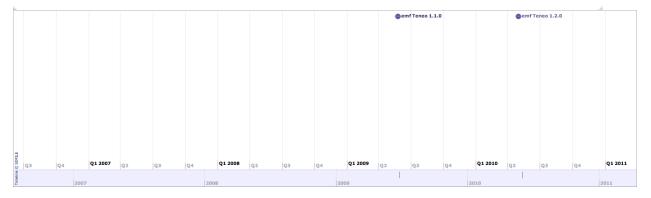
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emf.teneo



The Eclipse update site for this project is http://download.eclipse.org/modeling/emf/updates/interim/.

Teneo 1.2.0: 2010-06-01 planned Teneo 1.1.0: 2009-06-24 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emf.teneo

Lead(s) Martin Taal, individual

Committers

Stephan Eberle, Geensys Shaun Smith, Oracle Martin Taal, individual

Mailing List: http://dev.eclipse.org/mhonarc/lists/emf-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emf.teneo

		by	login			by <mark>3-6</mark> -9	9 montl	h activit	ty	
	one	three	six	nine		one	three	six	nine	(9-6-3)
mtaal	26,197	28,582	44,976	111,050	mtaal	26,197	28,582	44,976	111,050	
*nickb					seberle				5,723	
seberle				5,723	ssmith				15	
ssmith				15	*nickb					

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emf.teneo

Company	-	Active nmitters		ictive mitters					nits I0)			Approx. L per Comr	
individual	1	(100%)	0	(0%)	1	(25%)	100%	1,422 (1	100%)	26,197	(100%)		18
Total	1		3		4			1,422		26,197			

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		GeensysformerlyTNI-Software								1%	16%	
modeling.emf.teneo		Oracle								1%	1%	
modeling.enii.teneo		RedHatInc.						1%	2%	1%		
		individual						98%	97%	98%	83%	100%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		GeensysformerlyTNI-Software								1%	16%	
modeling.emf.teneo		Oracle								1%	1%	
modeling.emi.acheo		RedHatInc.						1%	2%	1%		
		<u>individual</u>						98%	97%	98%	83%	100%

User Community

Teneo is being used in RCP as well as web-service oriented development projects using EMF. Usage includes both in custom development projects as well as inclusion in standard software products. Teneo has an active user community with several forum posts a week.

Some numbers:

- Almost 4000 forum posts since July 2006 (count done by searching for all forum posts with the word Teneo in them)
- Total bugs: 475, current open bugs: 22

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

Internal: Teneo is being used in the CDO (<u>http://wiki.eclipse.org/CDO</u>) framework as part of the CDO Hibernate Store (<u>http://wiki.eclipse.org/CDO_Hibernate_Store</u>).

External: Considering the amount of forum posts, Teneo is actively being used in development projects outside of eclipse.org. There are several companies who use Teneo as a component in their standard product offering.

Learning

Documentation: http://wiki.eclipse.org/EMF/Teneo/EclipseLink JPA

Training http://www.springsite.com

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.tools.emf</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMF&component=teneo</u>

Consulting

http://www.springsite.com

Customizability

Teneo allows manual override of every mapping decision it makes automatically. Teneo has a specific process to ensure that manual overrides are maintained.

The mapping generation is completely driven by JPA annotations in the model. When Teneo processes a model it will automatically generate JPA annotations when no manual JPA annotation is present. Teneo can automatically handle models without manual JPA annotations, a partially annotated model and a fully annotated model. In all cases the manual JPA annotations are preserved. The result is a fully annotated model which can be a combination of manual and automatically generated annotations. The fully annotated model then drives the mapping generation.

Next to support for all JPA annotations, Teneo also has 40+ configuration options to easily control mapping and runtime behavior. See here for more information: http://wiki.eclipse.org/Teneo/Hibernate/Configuration_Options.

Extensibility

Teneo has an extension mechanism which makes it possible to replace core Teneo classes with custom implementations. This includes classes for automatic mapping and classes which are involved in runtime model-relational mapping. There are around 50 extension points (classes which can be replaced by custom implementations). See this wiki page for more information: http://wiki.eclipse.org/Teneo/Hibernate/Extensions.

Scalability

Teneo has the same scalability characteristics as EclipseLink, Hibernate and EMF. It can be used by small development teams as well as large development teams in the same way as EclipseLink, Hibernate and EMF can.

Usability

Teneo has a very low starting barrier. There are several tutorials available (<u>http://wiki.eclipse.org/Teneo/Hibernate#Tutorials</u>) which show that you can have Teneo up and running in a very short time.

Teneo has strong automatic mapping functionality which means that it can automatically map virtually every EMF model without any manual mapping effort. For more advanced usage, Teneo can be controlled in detail by a combination of manual JPA annotations, configuration options and custom extensions.

At runtime Teneo does not change the interface/API a developer works with. So a developer using Teneo normally is not aware of its presence, a developer works with the standard API's provided by EclipseLink, Hibernate and EMF.

Teneo is supported by an extensive wiki (<u>http://wiki.eclipse.org/Teneo</u>) providing tutorials, detailed information on extension and configuration and trouble-shooting and FAQ.

Interoperability

Teneo makes use of standard JPA annotations as specified by the Java community process (<u>http://www.jcp.org</u>).

At runtime a developer does not use the Teneo api explicitly (only for minor initialization at application start). A developer only makes use of and works with industry standards such as EclipseLink, Hibernate, HQL, EJB-QL and EMF. Teneo does not add proprietary API's or change API's of these standard solutions.

Dependencies

http://www.eclipse.org/modeling/emf/downloads/?project=teneo

Eclipse EMF EMF (Core) EclipseLink or Hibernate

Standards Enterprise Java Beans (EJB) 3.0 Java Persistence API (JPA) XML Schema Definition (XSD)

EMF Validation

Eclipse Modeling Framework Validation

Overview

http://www.eclipse.org/modeling/emf/?project=validation

The validation component provides the following capabilities.

- Constraint Definition Provides API for defining constraints for any EMF meta-model (batch and live constraints).
- Customizable model traversal algorithms Extensibility API to support meta-models that require custom strategies for model traversal.
- Constraint parsing for languages Provides support for parsing the content of constraint elements defined in specific languages. The validation framework provides support for two languages: Java and OCL.
- Configurable constraint bindings to application contexts API support to define "client contexts" that describe the objects that need to be validated and to bind them to constraints that need to be enforced on these objects.
- Validation listeners Support for listening to validation events.

Licensing

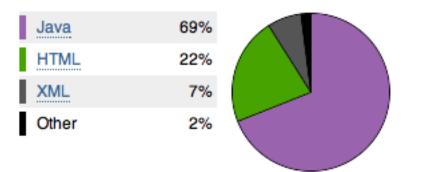
https://www.ohloh.net/p/emf-validation/analyses/latest

Eclipse Public License

281 files

Platforms / Languages

https://www.ohloh.net/p/emf-validation/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/emf/?project=validation</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emf.validation</u> Wiki Page: <u>http://wiki.eclipse.org/EMF/Validation</u>

Predictability

Release Train? Yes http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: http://www.eclipse.org/modeling/emf/validation/project- plan.php?planurl=http://www.eclipse.org/modeling/emf/validation/projectinfo/plan.xml&component=Validation New & Noteworthy: http://www.eclipse.org/modeling/emf/validation/project- New & Noteworthy: http://www.eclipse.org/modeling/emf/validation/project- New & Noteworthy: http://www.eclipse.org/EMF/Validation/New and Noteworthy Release Notes: http://www.eclipse.org/modeling/emf/news/relnotes.php?project=validation&version=HEAD

Release Timeline

http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emf.validation

N/A

Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emf.validation

Lead(s)

Boris Gruschko, SAP AG

Committers

Nick Boldt, Red Hat Inc. Boris Gruschko, SAP AG Anthony Hunter, IBM Martin Strenge, SAP AG

Mailing List: http://dev.eclipse.org/mhonarc/lists/emf-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emf.validation

N/A

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emf.validation

N/A

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

User Community

N/A

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

N/A

Learning

Documentation: http://www.eclipse.org/modeling/emf/docs/

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.tools.emf</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMF&component=Validation</u>

Consulting

N/A

Customizability

EMF Validation does not provide much in the way of customizability.

Extensibility

Parsers, constraints, and categories can be contributed via extensions.

Scalability

The traversal algorithm needs to be improved in order to handle large models.

Usability

There is not much UI in EMF Validation for the end user.

Interoperability

EMF Validation is interoperable by the virtue of its being based on EMF (and Ecore).

Dependencies

http://www.eclipse.org/modeling/emf/downloads/?project=validation

Eclipse EMF EMF (Core) MDT OCL (optional)

Standards

None.

EMFT Doc2Model

Eclipse Modeling Framework Technology Document to Model

Overview

http://eclipse.org/proposals/doc2model/

The Doc2Model (Document to Model) framework is a proposed open source component under the Eclipse Modeling Framework Technology project for parsing structured documents (e.g., xlsx, docx, odt, odf...) to produce EMF models. It is in the Project Proposal Phase (as defined in the Eclipse Development Process document) and is written to declare its intent and scope. This proposal is written to solicit additional participation and input from the Eclipse community. You are invited to comment on and/or join the project. Please send all feedback to the Eclipse Modeling Framework Technology (eclipse.technology.emft) newsgroup with [doc2model] as a prefix of the subject line.

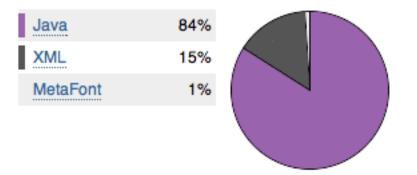
Licensing

https://www.ohloh.net/p/doc2model/analyses/latest



Platforms / Languages

https://www.ohloh.net/p/doc2model/analyses/latest



Home Page: <u>http://eclipse.org/proposals/doc2model/</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.doc2model</u> Wiki Page: N/A

Predictability

Release Train? No

http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: N/A New & Noteworthy: N/A Release Notes: N/A

Release Timeline

http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.doc2model

N/A

Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.doc2model

Lead(s)

Tristan Faure

Committers

Tristan Faure Werner Keil Emilien Perico, individual

Mailing List: http://dev.eclipse.org/mhonarc/lists/emft-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.doc2model

		by lo	ogin		by 3-0	6-9 n	10nth a	ctiv	ity		
(one	three	six	nine		one	three s	six	nine	(9-6-3)	
eperico					tfaure	649	649 6	649	649		Graphs that slope up to the
tfaure (649	649	649	649	eperico						right indicate increasing activity
wkeil					wkeil						by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.doc2model

Company	-	Active mmitters		active mitters	Co				Approx. LOC per Commit
individual						(100%)			
Total	1		0		1		431	649	

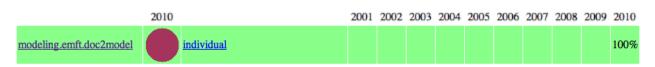
Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

20	010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
modeling.emft.doc2model		individual										100%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active



User Community

N/A

Adopter Community

N/A

Learning

Documentation: N/A

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.technology.emft</u> Bugs: <u>https://bugs.eclipse.org/bugs/enter_bug.cgi?product=EMFT.Doc2Model</u>

Consulting

N/A

Customizability

Doc2model provides an action language which allows users to define behaviors for EMF model creation. The action language includes a custom action which can call Java classes defined by user.

Extensibility

Doc2model can accept, via extension points

- new types of input documents
- new types of document recognition (other than predefined as regular expression and styles)
- · value interceptors for specific process during value assignment

Scalability

N/A

Usability

3 different actors are identified for doc2model. They are ordered by complexity ascending:

End user: he launches doc2model configuration model and extract data from its document.

<u>Configuration designer</u>: he knows doc2model language and the target metamodel, he can design a mapping for the end user.

<u>Parser writer</u>: he wants to provide new input document format management and writes java code to create specific parser.

Interoperability

N/A

Dependencies

Eclipse EMF Compare EMF EMF (Core)

Standards

None.

EMFT Ecore Tools

Eclipse Modeling Framework Technology Ecore Tools

Overview

http://www.eclipse.org/modeling/emft/?project=ecoretools

The <u>Ecore Tools</u> component provides a complete environment to create, edit and maintain Ecore models. This component eases handling of Ecore models with a Graphical Ecore Editor and bridges to other existing Ecore tools (Validation, Search, Compare, Emfatic, generators...). The Graphical Ecore Editor implements multi-diagram support, a custom tabbed properties view, validation feedbacks, refactoring capabilities... The long-term goal is to provide the same level of services as does JDT for Java.

Licensing

http://www.ohloh.net/p/9584/analyses/latest

 Eclipse Public License
 462 files

 Platforms / Languages
 http://www.ohloh.net/p/9584/analyses/latest

 Java
 84%

 HTML
 11%

 XML
 5%

 Other
 <1%</td>

Home Page: <u>http://www.eclipse.org/modeling/emft/?project=ecoretools</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.ecoretools</u> Wiki Page: <u>http://wiki.eclipse.org/Ecore_Tools</u>

Predictability

Release Train? Yes http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-</u> plan.php?planurl=http://www.eclipse.org/modeling/emft/ecoretools/projectinfo/plan.xml&component=EcoreTools New & Noteworthy: <u>http://wiki.eclipse.org/EcoreTools_New_Noteworthy</u> Release Notes: http://www.eclipse.org/modeling/emft/news/relnotes.php?project=ecoretools&version=HEAD

Release Timeline

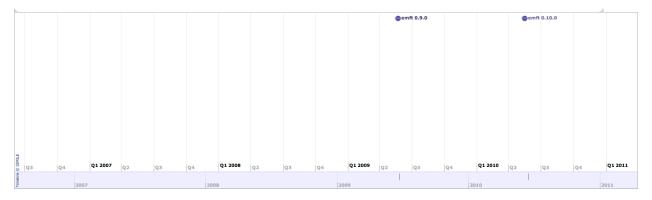
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.ecoretools



The Eclipse update site for this project is http://download.eclipse.org/releases/galileo/.

0.9.0: 2009-06-22 completed 0.10.0: 2010-06-16 planned

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.ecoretools

Lead(s)

David Sciamma, Anywhere Technologies

Committers

Lucas Bigeardel, individual Gilles Cannenterre, Anywhere Technologies Jacques Lescot, Anywhere Technologies David Sciamma, Anywhere Technologies

Mailing List: http://dev.eclipse.org/mhonarc/lists/emft-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.ecoretools

	by login				by 3-6	by 3-6-9 month activity								
	one	three	six	nine										
dsciamma					jlescot	34	47	47	63		Graphs that slop			
gcannente					dsciamma	ι					right indicate inc			
jlescot	34	47	47	63	gcannente	•					by the committee slope down to th			
lbigearde					lbigearde						decreasing activi nine, six and thre activity history so committer.			

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.ecoretools

Company		Active Committers		Inactive Committers								Approx. LOC per Commit		
AnywareTechnologies	1	(100%)	2	(66.67%)	3	(75%)	33.33%	9	(100%)	34	(100%)	. 4		
Total	1		3		4			9		34				

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
		AnywareTechnologies							100%	98%	100%	100%
modeling.emft.ecoretools		<u>individual</u>								1%		

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
		AnywareTechnologies							100%	75%	100%	100%
modeling.emft.ecoretools		individual								25%		

User Community

N/A

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

TBD

Learning

Documentation: http://wiki.eclipse.org/Ecore_Tools

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.technology.emft</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMFT&component=Ecore%20Tools</u>

Consulting N/A

Customizability

N/A

Extensibility

N/A

Scalability

N/A

Usability

N/A

Interoperability

N/A

Dependencies

http://www.eclipse.org/modeling/emft/downloads/?project=ecoretools

Eclipse EMF EMF (Core) EMF Query EMF Transaction EMF Validation GEF GMF MDT OCL

Standards Meta Object Facility (MOF)

EMFT Edapt

Eclipse Modeling Framework Technology Edapt

Overview

http://eclipse.org/proposals/edapt/

Edapt will provide an extensible framework for reducing the migration effort that results from the evolution of Ecore models. Since the number of existing instances of a successful modeling language typically outnumbers the number of editors, interpreters and transformations, instance migration effort dwarfs tool reconciliation effort. Consequently, Edapt clearly focuses on the migration of instances in the first step. However, we plan to make it extensible with respect to the migration of other artifacts like editors, interpreters and transformations. The basic idea behind Edapt is to obtain the changes between two versions of an Ecore model, and to enrich them with information about how to automatically migrate existing instances. Edapt will support a pluggable mechanism to obtain the changes between two Ecore model versions along with two examples: the operation-based and the difference-based approach.

Licensing

N/A

Platforms / Languages

N/A

Home Page: N/A Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.edapt</u> Wiki Page: <u>http://eclipse.org/proposals/edapt/</u>

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: N/A New & Noteworthy: N/A Release Notes: N/A

Release Timeline http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.edapt

N/A

Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.edapt

Lead(s)

Moritz Eysholdt, itemis AG Markus Herrmannsdoerfer

Committers

Moritz Eysholdt, itemis AG Markus Herrmannsdoerfer

Mailing List: http://dev.eclipse.org/mhonarc/lists/emft-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.edapt

N/A

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.edapt

N/A

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

Percentage of Active Committers by Company by Year http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

N/A

User Community

N/A

Adopter Community

N/A

Learning

Documentation: N/A

Training http://www.itemis.com/itemis-ag/language=en/2642/education-and-coaching

Support

Forum: http://www.eclipse.org/forums/eclipse.technology.emft Bugs: https://bugs.eclipse.org/bugs/buglist.cgi?product=EMFT&component=Edapt Consulting http://www.itemis.com/itemis-ag/language=en/2621/portfolio

Customizability

N/A

Extensibility

N/A

Scalability

N/A

Usability

N/A

Interoperability

N/A

Dependencies N/A

Standards None.

EMFT EEF

Eclipse Modeling Framework Technology Extended Editing Framework

Overview

http://www.eclipse.org/modeling/emft/?project=eef

The **Extended Editing Framework** aims at giving another way to improve the EMF model creation phase by providing new services dedicated to editing and using more appealing editing elements. The way to obtain these services and elements is based on a generative approach similar to the EMF.Edit one. The framework provides advanced editing components for the properties of EMF elements and a default generation based on standard metamodels using these components. The generic generators create a standard architecture with advanced graphical components to edit EMF model objects. These components are meant to leverage every aspects of the Eclipse Platform as for instance the Eclipse Dynamic Help.

763 files

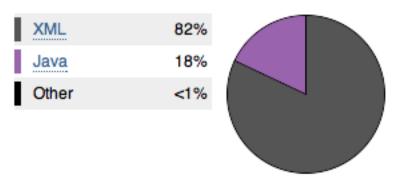
Licensing

http://www.ohloh.net/p/eef/analyses/latest

Eclipse Public License

Platforms / Languages

http://www.ohloh.net/p/eef/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/emft/?project=eef</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.eef</u> Wiki Page: <u>http://wiki.eclipse.org/EEF</u>

Predictability

Release Train? Yes <u>http://wiki.eclipse.org/Helios/Participating_Projects</u> <u>http://wiki.eclipse.org/Galileo#Projects</u> <u>http://wiki.eclipse.org/Ganymede#Projects</u> <u>http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects</u> <u>http://www.eclipse.org/callisto/callistoprojects.php</u>

Plan: http://www.eclipse.org/projects/project-plan.php?projectid=modeling.emft.eef

Non-no-No-

New & Noteworthy: <u>http://wiki.eclipse.org/EEF_New_and_Noteworthy</u> **Release Notes:** <u>http://www.eclipse.org/modeling/emft/news/relnotes.php?project=eef&version=HEAD</u>

Release Timeline

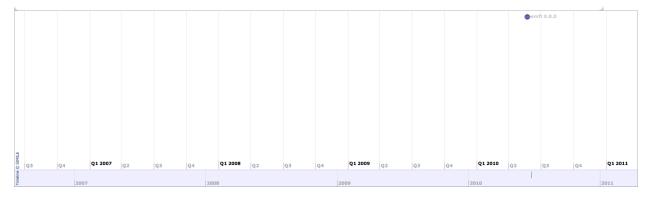
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.eef



The Eclipse update site for this project is http://download.eclipse.org/modeling/emft/eef/updates/releases/.

0.8.0: 2010-06-23 tentative

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.eef

Lead(s)

Goulwen Le Fur, Obeo

Committers

Stephane Bouchet, Obeo Goulwen Le Fur, Obeo Nathalie Lepine, Obeo Patrick Tessier, CEA LIST

Mailing List: http://dev.eclipse.org/mhonarc/lists/emft-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.eef

		by l	ogin		b	y 3-6-9	month	activity			
	one	three	six	nine		one	three	six	nine	(9-6-3)	
glefur	542	7,584	13,649	39,076	glefur	542	7,584	13,649	39,076		
nlepine	12,435	13,171	13,472	13,473	nlepine	12,435	13,171	13,472	13,473		
ptessier			28	28	sbouchet	8,306	23,879	34,706	72,712		
sbouchet	8,306	23,879	34,706	72,712	ptessier			28	28		

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.eef

Company	-	Active nmitters		nctive mitters					nmits 010)			Approx. LOC per Commit
OBEO	3	(100%)	0	(0%)	3	(75%)	100%	1,211	(100%)	22,638	(100%)	19
Total	3		1		4			1,211		22,638		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		CEALIST									1%	
modeling.emft.eef		<u>OBEO</u>									99%	100%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		<u>CEALIST</u>									25%	
modeling.emft.eef		<u>OBEO</u>									75%	100%

User Community

The user community for EEF includes users of EMF as a modeling tool.

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

EEF has been adopted in Eclipse projects like Papyrus and AMP. EEF is mainly used to improve properties views generated by EMF. EEF is currently used by big industrial companies.

Learning

Documentation: http://wiki.eclipse.org/EEF

Training http://www.obeo.fr/pages/training/en

Support

Forum: http://www.eclipse.org/forums/eclipse.technology.emft Bugs: https://www.eclipse.org/forums/eclipse.technology.emft Bugs: https://www.eclipse.org/forums/eclipse.technology.emft Bugs: https://bugs.eclipse.org/bugs/enter_bug.cgi?product=EMFT&component=EEF

Consulting

http://www.obeo.fr/pages/mda-and-productivity/en

Customizability

The result of the EEF generation can be customized with generated code and by using extension points like IPropertiesEditionProvider.

Extensibility

EEF generation can be extended with the dynamic override Acceleo mechanism. The UML generation is defined this way.

Scalability

N/A

Usability

Once EEF is installed, an initializer can create default EEF models for a given EMF generation model (genmodel) by using the action "Initialize EEF models" in the popup menu of the genmodel file. Then, the EEF generation can be invoked by a right click on a EEFGen model with action "Generate EEF architecture".

Interoperability

EEF is Interoperable with any EMF-based model.

Dependencies

http://www.eclipse.org/modeling/emft/downloads/?project=eef

Eclipse EMF Compare EMF EMF (Core) EMF Validation M2T Acceleo MDT OCL

Standards

None.

EMFT EGF

Eclipse Modeling Framework Technology Eclipse Generation Factories

Overview

http://www.eclipse.org/proposals/egf/

The purpose of EGF is to meet the need of mass-producing software with flexibility. EGF federates generation around the pivotal notion of **factory component**. A factory component is a generation unit with a clear objective of generation. It has a contract to declare the factory component parameters. Generation data are organized by **viewpoints**, such as generation pattern or model mapping declarations. The generation orchestration is defined in a **production plan**. A generation step of the production plan can either be a task, for instance implemented in Java, or, by assembly, a call to another factory component. A factory component can be **edited** and **executed**. A factory component encapsulates generation know-how. A **portfolio** is a consistent set of factory components with a common generation objective which is valuable for development teams or a user community. Finally and in practice, EGF implements a structure able to provide and execute customizable and off-the-shelf software factories.

927 files

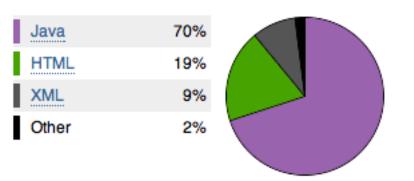
Licensing

https://www.ohloh.net/p/egf/analyses/latest

Eclipse Public License

Platforms / Languages

https://www.ohloh.net/p/egf/analyses/latest



Home Page: <u>http://www.eclipse.org/egf/</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.egf</u> Wiki Page: <u>http://wiki.eclipse.org/EGF</u>

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects

43

http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.emft.egf</u> New & Noteworthy: N/A Release Notes: N/A

Release Timeline

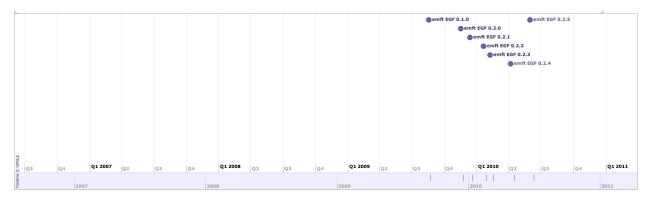
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.egf

Releases

No Eclipse update site has been listed.

0.2.5: 2010-05-17 planned 0.2.4: 2010-04-16 planned 0.2.3: 2010-03-15 planned 0.2.2: 2010-02-19 completed 0.2.1: 2010-01-11 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.egf

Lead(s)

Benoit Langlois, Thales

Committers

Laurent Goubet, OBEO Thomas Guiu, Soyatec Benoit Langlois, Thales Xavier Maysonnave, Soyatec

Mailing List: http://dev.eclipse.org/mhonarc/lists/egf-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.egf

		by	login		by 3	-6-9 m	onth ac	tivity		
	one	three	six	nine		one	three	six	nine	(9-6-3)
langlois	134	134	136	10,871	langlois	134	134	136	10,871	
lgoubet					tguiu	7,284	17,904	17,978	17,978	
tguiu	7,284	17,904	17,978	17,978	xmaysonnave			4,700	4,700	
xmaysonnave			4,700	4,700	lgoubet					
			.,	.,,	Bonoci					

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.egf

Company	Co	Active mmitters		Inactive ommitters	С		Percent Active		mmits 2010)		of Code 2010)	Approx. LOC per Commit
Soyatec	1	(50%)	1	(100%)	2	(66.67%)	50%	9,569	(98.62%)	9,569	(98.62%)	1
Thales	1	(50%)	0	(0%)	1	(33.33%)	100%	134	(1.38%)	134	(1.38%)	1
Total	2		1		3			9,703		9,703		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		Soyatec									54%	98%
modeling.emft.egf		Thales									45%	1%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		Soyatec									66%	50%
modeling.emft.egf		Thales									33%	50%

User Community

N/A

Adopter Community

Soyatec is the first early adopter, with a PMF-to-XWT generation capability.

Learning

Documentation: http://wiki.eclipse.org/EGF

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.technology.emft</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMFT&component=EGF</u>

Consulting

N/A

Customizability

In EGF, customizability covers the ability to define reusable factory component portfolios and patterns. A portfolio can be technical or business. One technical target of EGF is "to patternize" the EMF generation in order to enrich or customize it with more flexibility.

Extensibility

- EGF is based on the model extension capability. Then, major EGF features can be enriched, such as:
 - Definition of new activity type. Factory component and task are the default EGF activities. New activity types, different from generation topics, can be added, e.g. process or testing activity.
 - *Definition of new viewpoint*. A viewpoint is a generation perspective. New viewpoints can be added, such as licensing or feature model.
 - Definition of new orchestration type. Generation orchestration is described by a production plan, which is just a sequential list of invoked activities. The target for EGF here is to have a more sophisticated orchestration, such as with BPMN.
- Pattern is a means to apply systematic behavior. A pattern has a pattern nature which determines the language used for implementation. EGF proposed two default natures: JET, for model-to-text transformation, and Java, for common usages. New pattern nature can be added. This implies to develop the associated language engine adapter and to contribute to the existing pattern user interface.

Scalability

N/A

Usability

The factory component and task editor is based on the EMF editor, enriched with facilities for the user, such as navigating between activities, guidance for the definition of activity invocation in a production plan, moving an activity from one file to another one, model checking for error diagnostic.

A pattern editor has been developed in order to encapsulate the pattern complexity, such as the pattern structure or for fragmenting pattern implementation in order to provide the ability to customize a pattern (e.g., with pattern inheritance or pattern call).

Interoperability

N/A

Dependencies

Eclipse EMF EMF (Core) M2T JET

Standards

None.

EMFT EMF Feature Model

Eclipse Modeling Framework Technology EMF Feature Model

Overview

http://www.eclipse.org/proposals/feature-model/

During the last years Feature Modeling has become the "standard" for variability management in the field of Software Product Lines. Feature Models are easy to understand and provide a generic way to represent variability information, independent of a specific application domain. Several independent projects using the Eclipse platform / EMF have each defined their own meta model for feature models. Although these meta models have considerable structural differences, their core semantics are similar. A brief description of feature models can be found at **Wikipedia** and this **article** describes a small feature modeling example. The EMF Feature Model project will define a standard representation of Feature Models inside the Eclipse platform. The intent is to provide a uniform representation for variability information for tools based on the Eclipse Modeling Framework. This will allow easy and consistent access to variability-related information, such as variation points and variant decisions, in DSLs, M2M transformations, and other contexts where variability information is produced or consumed.

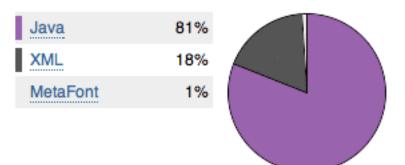
Licensing

https://www.ohloh.net/p/emf-feature-model/analyses/latest

(Eclipse Public License)

Platforms / Languages

https://www.ohloh.net/p/emf-feature-model/analyses/latest



Home Page: N/A Portal Page: http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.featuremodel Wiki Page: N/A

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php IIn

Plan: N/A New & Noteworthy: N/A Release Notes: N/A

Release Timeline

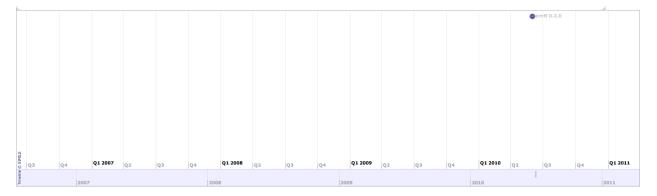
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.featuremodel



No Eclipse update site has been listed.

0.2.0: 2010-07-01 tentative

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.featuremodel

Lead(s) Holger Papajewski, individual

Committers

Andre Maass, individual Holger Papajewski, individual Andreas Rytina Markus Voelter, itemis AG

Mailing List: http://dev.eclipse.org/mhonarc/lists/featuremodel-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.featuremodel



Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.featuremodel

	-	Active		active								Approx. LOC
Company	Cor	nmitters	Con	mitters	Co	ommitters	Active	- (2	2010)	(2010)	per Commit
individual	3	(100%)	0	(0%)	3	(100%)	100%	574	(100%)	574	(100%)	1
Total	3		0		3			574		574		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	
modeling.emft.featuremodel		individual										100%	

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
modeling.emft.featuremodel	individual										100%

User Community

N/A

Adopter Community

N/A

Learning

Documentation: N/A

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.technology.emft</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMFT.Featuremodel</u>

Consulting N/A

Customizability

N/A

Extensibility

N/A

Scalability

N/A

Usability

N/A

Interoperability

N/A

Dependencies N/A

Standards

MOF Support for Semantic Structures

EMFT EMF Refactor

Eclipse Modeling Framework Technology EMF Refactor

Overview

http://www.eclipse.org/proposals/emf-refactor/

A basic intention of the proposed component is to provide a framework for developing refactorings for models that are based on EMF. Model refactorings can be seen as endogenous model transformations preserving the semantics of a model yet improving the internal structure. The idea is to provide an easy to use generator which relies on model transformations to build model refactorings. So in the proposed framework the development of individual model refactorings will be based on model transformations, whereas the specifications of these model refactorings should be done by means of several different model transformation approaches. This will lead to a framework which will be extensible in two ways: on the one hand it should be possible to develop new EMF model refactorings which will, on the other hand, be specified and executed by exchangeable model transformation engines.

Licensing N/A

Platforms / Languages

N/A

Home Page: N/A Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.refactor</u> Wiki Page: N/A

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: N/A New & Noteworthy: N/A Release Notes: N/A

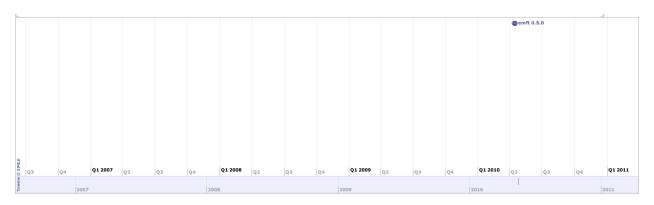
Release Timeline http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.refactor



No Eclipse update site has been listed.

0.5.0: 2010-05-15 planned

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.refactor

Lead(s) Thorsten Arendt

Committers

Thorsten Arendt Florian Mantz

Mailing List: http://dev.eclipse.org/mhonarc/lists/emfrefactor-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.refactor

N/A

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.refactor

N/A

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010

2010

N/A

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

User Community

N/A

Adopter Community

N/A

Learning

Documentation: N/A

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.technology.emft</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMFT.Refactor</u>

Consulting N/A

Customizability

N/A

Extensibility

Scalability

N/A

Usability

N/A

Interoperability

N/A

Dependencies N/A

Standards

None.

EMFT Henshin

Eclipse Modeling Framework Technology Henshin

Overview

http://www.eclipse.org/modeling/emft/henshin/

Henshin is an in-place model transformation language for the <u>Eclipse Modeling Framework (EMF)</u>. It supports direct transformations of EMF model instances (endogenous transformations), as well as generating instances of a target language from given instances of a source language (exogenous transformations).

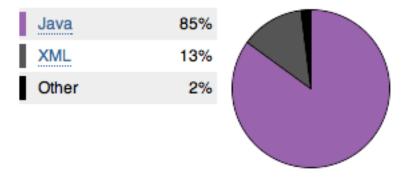
Licensing

https://www.ohloh.net/p/emf-henshin/analyses/latest

(Eclipse Public License)

Platforms / Languages

https://www.ohloh.net/p/emf-henshin/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/emft/henshin/</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.henshin</u> Wiki Page: <u>http://wiki.eclipse.org/Henshin</u>

Predictability

Release Train? No

http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: N/A New & Noteworthy: N/A Release Notes: N/A

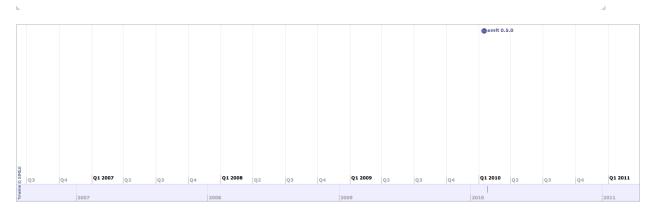
Release Timeline http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.henshin n II



No Eclipse update site has been listed.

0.5.0: 2010-02-15 planned

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.henshin

Lead(s)

Christian Krause, CWI

Committers

Enrico Biermann, individual Stefan Jurack, individual Christian Krause, CWI

Mailing List: http://dev.eclipse.org/mhonarc/lists/henshin-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.henshin

		by	login		by 3-	6-9 n	nonth	activit	y
	one	three	six	nine		one	three	six	nine
krause	550	1,775	1,777	1,777	ckrause	550	1,775	1,777	1,777
biermann	188	284	284	284	ebiermann	188	284	284	284
*hbrunelie					sjurack	95	101	101	101
sjurack	95	101	101	101	*hbrunelie				

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.henshin

Company	Co	Active mmitters		active nmitters	Total Committers	Percent Active		Lines of Code (2010)	Approx. LOC per Commit
CentrumvoorWiskundeenInformatica	1	(33.33%)	0	(0%)	1 (25%) 100%	1,253 (81.26%)) 1,253 (81.26%)	1
individual	2	(66.67%)	0	(0%)	2 (50%)) 100%	289 (18.74%)) 289 (18.74%)	1
Total	3		1		4		1,542	1,542	

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
modeling.emft.henshin		CentrumvoorWiskundeenInformatica									84%	81%
		INRIAInstitutenationalderecherch								100%		
	$\mathbf{\nabla}$	individual									15%	18%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		CentrumvoorWiskundeenInformatica									50%	33%
modeling.emft.henshin		INRIAInstitutenationalderecherch								100%		
	1	<u>individual</u>									50%	66%

User Community

N/A

Adopter Community

N/A

Learning

Documentation: http://wiki.eclipse.org/Henshin

Training

N/A

Support

Forum: http://www.eclipse.org/forums/eclipse.technology.emft Bugs: https://bugs.eclipse.org/bugs/buglist.cgi?product=EMFT.Henshin

Consulting N/A

Customizability

N/A

Extensibility

N/A

Scalability

N/A

Usability

N/A

Interoperability

N/A

Dependencies N/A

Standards None.

EMFT JCRM

Eclipse Modeling Framework Technology Java Content Repository Management

Overview

http://www.eclipse.org/modeling/emft/?project=jcrm

With JCR Management (JCRM) you can back EMF with <u>JCR</u> implementations. This way you can combine the strength of the Eclipse modeling projects with the scalability, features and exchangeability of the JCR repositories.

Currently the project is in a prototyping phase and has completed about 85% of the planned prototypes before starting to work on promoting it.

Licensing

https://www.ohloh.net/p/jcrm/analyses/latest

 Eclipse Public License
 66 files

 Platforms / Languages
 https://www.ohloh.net/p/jcrm/analyses/latest

 Java
 63%

 Java
 63%

 Other
 9%

Home Page: <u>http://www.eclipse.org/modeling/emft/?project=jcrm</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.jcrm</u> Wiki Page: <u>http://wiki.eclipse.org/index.php/JCR_Management</u>

Predictability

The first milestone is focused on finishing the repository plug-in framework prototype. That will be finished in a few months, at the latest. After that, the project lead will gather feedback on that milestone and align the roadmap with it. Depending on user demand and user feedback JCRM will start to create formal releases for its first milestone.

The second milestone is to create a prototype that generates JCR backend domain entities that are as simple and independent from frameworks as possible at runtime.

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.emft.jcrm</u> New & Noteworthy: N/A Release Notes: N/A

Release Timeline

http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.jcrm

N/A

Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.jcrm

There are have been contributions to the project, but there is only one committer right now.

The documentation in the wiki makes the functionality and inner workings of JCRM as transparent as currently possible. Any feedback showing a lack of transparency is intended to lead to improvements of the JCRM wiki pages.

JCRM is mainly developed in spare time and vacation days. The activity is currently not transparent as the development happens in the private sandbox and not in CVS. After the completion of the first milestone, CVS branches will be used to change that.

Lead(s)

Sandro Boehme, individual

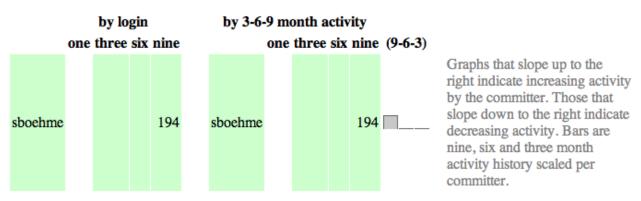
Committers

Sandro Boehme, individual

Mailing List: http://dev.eclipse.org/mhonarc/lists/emft-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.jcrm

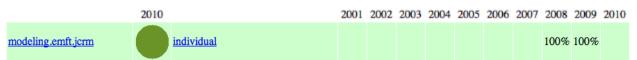


Currently the project lead is working on a larger repository plug-in framework prototype for JCRM in a private local sandbox. As soon as all use cases are working it will be checked in and documented on the wiki. Subsequent incompatible changes will not happen in the sandbox but will be branched out in CVS instead.

Company Commit Details

Company	Active Committers	Inactive Committers					Lines of Code (2010)			Appi per		
Total	0	1	1		0		0					
Percentage of Lines Changed by Company by Year http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc												
	201	0		2001	2002 200	3 2004	4 2005	2006	2007	2008	2009	201
nodeling.emft.	.jcrm	individual								100%	100%	
	ge of Activ eclipse.org/da						rtivo					

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.jcrm



User Community

Currently the JCRM user community consists of people interested in the concept of JCRM and evaluating the project. But there is no further active community. JCRM is not working on building community right now other than setting value on transparency for the working functionality. This is archived with the documentation in the wiki. It shows an overview of the project as well as background information about the prototypes and tutorials for the use cases.

As soon as the repository plug-in framework prototype is available in the CVS and described in the Wiki it will be made public and described in blog entries within the JCRM blog at <u>www.planeteclipse.org</u>. It is expected that this will attract attention. The project lead plans to use these blog entries to gather feedback from an audience larger than the audience of people reading the wiki page and to align this feedback with the roadmap of JCRM.

The second milestone is to enhance the framework prototype to generate entities that are as simple as possible. Following that, the project lead will start to gather feedback from repository communities like Apache Jackrabbit.

Every user question asked so far (privately or in public) has been answered.

Adopter Community

Currently there is no adopter community. The project lead is working on a repository plug-in framework prototype that enables JCR implementation vendors to create a JCRM connector for their product enabling adopter communities.

Learning

Documentation: http://wiki.eclipse.org/index.php/JCR_Management

Training

As there is no active user community there is no need for training right now.

Support

JCRM has already been supported via the forum, private email, private telephone and screen sharing sessions. The prefered support channel is the forum, but support via telephone or screen sharing is also welcome if needed.

Forum: <u>http://www.eclipse.org/forums/eclipse.technology.emft</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMFT&component=JCR%20Management</u>

Consulting

The project lead would be happy to work with customers, e.g., on JCRM evaluation issues or general JCR related work during professional working hours at inovex GmbH (<u>http://www.inovex.de</u>/).

Customizability

JCRM will provide a repository plug-in framework prototype within the next few months. It also utilizes the EMF EStore and resource framework to back EMF objects with JCR content. This leaves much room for extending and customizing the UI and the framework.

Details can be found in the documentation at <u>http://wiki.eclipse.org/index.php/JCR_Management</u>.

Extensibility

See above.

Scalability

JCRM is designed to scale with the size of Java Content Repositories. A prototype has shown that it is possible to create about 1.5 million EMF objects backed with JCR nodes at once. Java Content Repositories already provide multi user capabilities and address concurrency issues. It's the goal of Eclipse JCRM to scale with those JCR features.

Usability

JCRM sees simplicity and usability as a key value right from the start. The steps needed to configure the environment already have been simplified and the repository plug-in prototype will further simplify it, making it easier to use.

Interoperability

Right now JCRM needs to connect to a JCR implementation via RMI running on a server. The planned repository plug-in framework prototype will enhance this to allow writing more diverse connectors, e.g., to support other protocols.

Dependencies

An important goal JCRM follows is to be independent of JCR implementations. JCRM has strong runtime dependencies to EMF and development time dependencies to EMFT MWE, EMFT Ecore Tools, and TMF Xtext.

The second milestone will be to generate domain entities that are as simple and independent from other frameworks as possible.

Standards Content Repository for Java

EMFT MTF

Eclipse Modeling Framework Technology Modeling Team Framework

Overview

http://www.eclipse.org/proposals/mtf/

The Modeling Team Framework will provide a mechanism like a meta repository on top of three repository types. It could be the base for software configuration management of Eclipse projects which uses the Eclipse Modeling Framework (EMF). The Modeling Team Framework will track the mapping between metamodel versions and editor plugins, and will automatically provide P2-based update sites.

Licensing (Eclipse Public License)

Platforms / Languages

(Java)

Home Page: <u>http://www.eclipse.org/modeling/emft/mtf/</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.mtf</u> Wiki Page: <u>http://wiki.eclipse.org/MTF</u>

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: N/A New & Noteworthy: N/A Release Notes: N/A

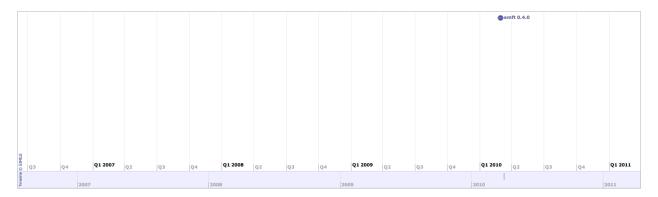
Release Timeline http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.mtf



No Eclipse update site has been listed.

0.4.0: 2010-03-31 planned

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.mtf

Lead(s)

Steffen Stundzig, itemis AG

Committers

Steffen Dienst Sven Krause Steffen Stundzig, itemis AG Michael Willig Robert Wloch

Mailing List: http://dev.eclipse.org/mhonarc/lists/mtf-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.mtf

N/A

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.mtf

N/A

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

User Community

The user community has to be built and moved from the flowr community, if the initial contribution is ready.

Adopter Community

The project is currently in validation phase, the community must also be built inside the Modeling project scope. Adopters could be the other interested parties in the proposal, e.g., the following companies Oracle Consulting, Atos Origin, Polarion or Sopera.

Learning

Documentation: N/A

Training

http://www.itemis.com/itemis-ag/language=en/2642/education-and-coaching

Support

Forum: http://www.eclipse.org/forums/eclipse.technology.emft Bugs: https://www.eclipse.org/forums/eclipse.technology.emft Bugs: https://www.eclipse.org/forums/eclipse.technology.emft Bugs: https://bugs.eclipse.org/bugs/buglist.cgi?product=EMFT.MTF

Consulting

http://www.itemis.com/itemis-ag/language=en/2621/portfolio

Customizability

See below.

Extensibility

MTF could be extended with other underlying SCM solutions, for which MTF works only as a delegate.

Scalability

N/A

Usability

Intuitive Team-API Implementation like other SCM solutions, e.g., Subversive, EGit, or CVS.

Interoperability

All modeling projects (textual or graphical) could be managed and stored with MTF.

Dependencies

Eclipse EMF CDO EMF EMF (Core)

Standards

None.

EMFT MXF

Eclipse Modeling Framework Technology Model Execution Framework

Overview

http://www.eclipse.org/proposals/mxf/

The MXF will build extensible frameworks and exemplary tools for executable models, e.g. an editor to define metamodels and runtime models and their behavior in terms of an action language. An interpreter and debugger will support the execution and testing of these models as well as recording of simulation runs for further analysis. The language for operational semantics might have a graphical and textual syntax and shall integrate other languages by means of black-box operations, library implementations, and so on. The common execution infrastructure will define common concepts on top of the Eclipse debugging framework and will enable applications to share runtime models, adapters for specific editors and debuggers, tracing capabilities, and more. MXF will provide integration with GMF for building DSL simulators that are seamlessly integrated into a generated editor.

Licensing

(Eclipse Public License)

Platforms / Languages

(Java)

Home Page: N/A Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.mxf</u> Wiki Page: <u>http://wiki.eclipse.org/Model_Execution_Framework_%28MXF%29</u>

Predictability

Release Train? No

http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: N/A New & Noteworthy: N/A Release Notes: N/A

Release Timeline

http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.mxf

N/A

Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.mxf

Lead(s) Michael Soden

Committers

Hajo Eichler

Markus Scheidgen Michael Soden

Mailing List: http://dev.eclipse.org/mhonarc/lists/mxf-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.mxf

N/A

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.mxf

N/A

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

User Community

The project is currently migrating from sourceforge to Eclipse (see

<u>http://sourceforge.net/projects/m3actions/</u>). Known users of this predecessor project include only academic institutions, namely the Humboldt University Berlin and the Telematica Institute Enschede. The revised source code is not yet contributed, thus there is no real user community yet.

Adopter Community

Since the project did not submit any code yet, there is no adopter community. However, there is still interest from academic institutions and commercial companies (cp. list of interested parties at http://www.eclipse.org/proposals/mxf/).

Learning

Documentation: N/A

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.technology.emft</u> Bugs: N/A

Consulting N/A

Customizability

N/A

Extensibility

N/A

Scalability

N/A

Usability

N/A

Interoperability

The project is intended to fit seamlessly into the existing and well established Eclipse Modeling projects (EMF, GMF/GEF, OCL). No other interoperability discussions or considerations have taken place.

Dependencies

N/A

Standards

None.

EMFT Texo

Eclipse Modeling Framework Technology Texo

Overview

http://wiki.eclipse.org/Texo

The goal of the Texo project is to provide model and template driven development technology for web application development projects. Texo will be based on and use components currently present in the <u>Eclipse Modeling Framework (EMF)</u> and <u>Eclipse Modeling Framework Technology (EMFT)</u> projects.

Licensing

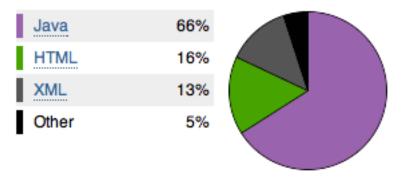
https://www.ohloh.net/p/texo/analyses/latest

Eclipse Public License

88 files

Platforms / Languages

https://www.ohloh.net/p/texo/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/emft/texo/</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.texo</u> Wiki Page: <u>http://wiki.eclipse.org/Texo</u>

Predictability

Release Train? No

http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

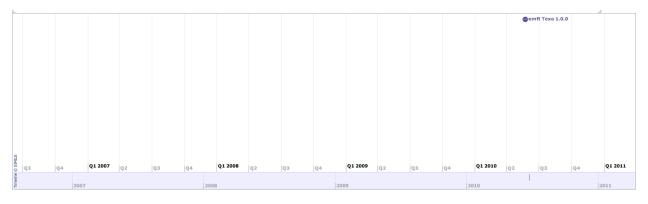
Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.emft.texo</u> New & Noteworthy: N/A Release Notes: N/A

Release Timeline http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.emft.texo 

The Eclipse update site for this project is https://build.eclipse.org/hudson/job/emft-texonightly/lastSuccessfulBuild/artifact/build/result/p2site/.

Texo 1.0.0: 2010-06-23 planned 📃

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.emft.texo

Lead(s)

Martin Taal, individual

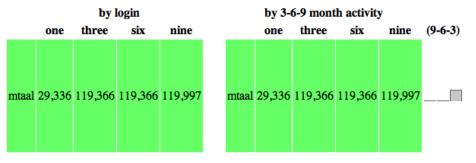
Committers

Martin Taal, individual

Mailing List: http://dev.eclipse.org/mhonarc/lists/emft-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.emft.texo



Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

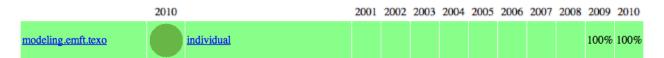
Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.emft.texo

Company	С	Active ommitters		ctive mitters								Approx. LOC per Commit
individual	1	(100%)	0	(0%)	1	(100%)	100%	2,292	(100%)	119,332	! (100%)	52
Total	1		0		1			2,292		119,332	2	

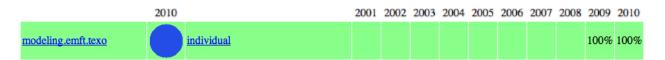
Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc



Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active



User Community

N/A

Adopter Community

N/A

Learning

Documentation: http://wiki.eclipse.org/Texo

Training http://www.springsite.com

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.technology.emft</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=EMFT&component=Texo</u>

Consulting

http://www.springsite.com

Customizability

Texo will support customizability in the following ways:

- Texo uses annotations on the model to drive software artifact generation. A developer can override this behavior by providing manual annotations in the model. In the artifact generation process, Texo will generate annotations while preserving manual annotations. The fully annotated model then drives code and artifact generation.
- Texo will make it possible to override templates used by the artifact generation by templates present in the development project itself.

Extensibility

Texo will facilitate adding other annotation models/sets to the overall code generation. This makes it possible and also easy to generate additional annotations in the generated Java code.

Texo will make it possible to add generation of other code artifacts through extension points. The custom artifact generation has access to the same fully annotated models as Texo code artifact generation.

Scalability

Texo has two parts: a development component used to generate software artifacts and a runtime component providing access to the model at runtime and providing XML/XMI/JSON de-serialization.

The development component are part of the Eclipse IDE and can be used by small and large teams. There is no expected limitation on the size of the models which can be handled by the development component.

The Texo generated code is standard Java code so there is no specific Texo scalability characteristic here.

The Texo runtime components have modest system resource demands, there is some relation between the size of the model and the system requirement but overall memory requirements are modest and not more than standard EMF core.

Usability

Texo works from any Ecore/XSD model directly without manual changes to the model. The artifact generation is done by selecting models in the IDE and generating code directly from those models.

A developer who wants to dive deeper and control the code generation can do so by providing manual annotations in the model itself.

Texo is documented through a growing wiki (<u>http://wiki.eclipse.org/Texo</u>) providing detailed information on supported concepts and API's.

Interoperability

It is a central goal of Texo to generate code artifacts which are not more (and not less) than standard Java pojo code. This facilitates usage of generated artifacts in other (web) frameworks.

Texo will make it possible to generate Java annotations which are important for integration or usage with other frameworks (JPA, Hibernate Search/Lucene, etc.)

The code generation works from Ecore or XSD models (i.e., de-facto Eclipse/industry standards).

Dependencies

EMF EMF (Core)

Standards

Enterprise Java Beans (EJB) 3.0 Java Persistence API (JPA) Meta Object Facility (MOF) XML Metadata Interchange (XMI) XML Schema Definition (XSD)

GMP GMF

Graphical Modeling Project Graphical Modeling Framework

Overview

http://www.eclipse.ora/modelina/amf/

The Eclipse Graphical Modeling Framework (GMF) provides a generative component and runtime infrastructure for developing graphical editors based on EMF and GEF. The project aims to provide these components, in addition to exemplary tools for select domain models which illustrate its capabilities.

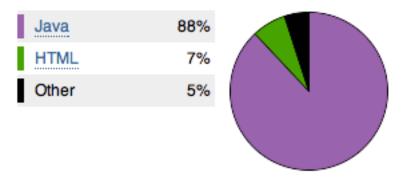
Licensing

http://www.ohloh.net/p/5020/analyses/latest

Eclipse Public License	5374 files
Common Public License 1.0	2 files

Platforms / Languages

http://www.ohloh.net/p/5020/analyses/latest



Home Page: http://www.eclipse.org/modeling/gmf/ Portal Page: http://www.eclipse.org/projects/project_summary.php?projectid=modeling.gmf Wiki Page: http://wiki.eclipse.org/Graphical Modeling Framework

Predictability

Release Train? Yes

http://wiki.eclipse.org/Helios/Participating Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: http://www.eclipse.org/projects/project-plan.php?projectid=modeling.gmf New & Noteworthy: http://wiki.eclipse.org/GMF 2.3 New and Noteworthy Release Notes: http://www.eclipse.org/modeling/gmf/news/relnotes.php?project=&version=HEAD

Release Timeline

http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.gmf

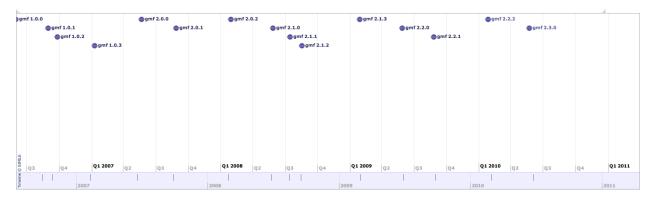


The Eclipse update site for this project is

http://download.eclipse.org/modeling/gmf/update-site/releases/site.xml.

2.3.0: 2010-06-23 p	planned 🗵 📃
2.2.2: 2010-02-26 p	planned
2.2.1: 2009-09-25 c	completed
2.2.0: 2009-06-28 d	completed 👳 📃
2.1.3: 2009-02-28 d	completed 💌 📄

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.gmf

Lead(s)

Artem Tikhomirov, individual

Committers

Boris Blajer (Golubev), Borland Software Nick Boldt, Red Hat Inc. Alex Boyko, IBM James Bruck, IBM Mariot Chauvin, Obeo Linda Damus, IBM Radomil Dvorak, Borland Software Lidija Grahek, IBM Anthony Hunter, IBM Cheri Revells, IBM Alexander Shatalin, individual Dmitry Stadnik, Borland Software Artem Tikhomirov, individual

Mailing List: http://dev.eclipse.org/mhonarc/lists/gmf-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.gmf

		by l	login	
	one	three	six	nine
aboyko	251	417	958	3,691
ahunter	3,113	8,260	17,410	18,820
ashatalin	167	32,763	33,174	36,056
atikhomirov	13	566	791	2,174
bblajer			8	93
*emahoney				
crevells	3,600	4,464	4,879	4,888
dstadnik				1,589
fplante				
jbruck		1,082	3,287	3,287
ldamus	75	102	135	135
lgrahek	67	771	2,102	2,300
mchauvin	216	629	734	754
mfeldman				
mmostafa				
nickb	134	134	136	294
radvorak		2	2	2
rgronback				176
sshaw				
vramaswamy				

by 3-6-9 month activity one three six nine (9-6-3) aboyko 251 958 3,691 417 3,113 8,260 17,410 18,820 ahunter 167 32,763 33,174 36,056 ashatalin 2,174 atikhomirov 13 566 791 4,464 4,879 3,600 4,888 crevells jbruck 1,082 3,287 3,287 75 102 135 135 ldamus lgrahek 67 771 2,102 2,300 629 734 754 mchauvin 216 136 294 nickb 134 134 radvorak 2 2 2 8 93 bblajer dstadnik 1,589 rgronback 176 *emahoney fplante mfeldman mmostafa sshaw vramaswamy

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.gmf

Company	C	Active ommitters	1000	nactive mmitters					ommits (2010)		of Code 2010)	Approx. LOC per Commit
IBM	5	(55.56%)	3	(27.27%)	8	(40%)	62.5%	110	(61.45%)	7,106	(93.06%)	65
individual	2	(22.22%)	4	(36.36%)	6	(30%)	33.33%	23	(12.85%)	180	(2.36%)	8
OBEO	1	(11.11%)	0	(0%)	1	(5%)	100%	19	(10.61%)	216	(2.83%)	11
RedHatInc.	1	(11.11%)	0	(0%)	1	(5%)	100%	27	(15.08%)	134	(1.75%)	5
Total	9		11		20			179		7,636		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

	BorlandSoftwareCorp.			9%	24%	34%	6%	2%	
and the set	IBM			43%	19%	20%	17%	22%	93%
	OBEO							1%	2%
modeling.gmf	RedHatInc.						1%	1%	1%
	individual			43%	52%	45%	75%	73%	2%
	unknown			2%	3%				

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		BorlandSoftwareCorp.					9%	20%	25%	25%	21%	
		IBM					36%	33%	41%	33%	42%	55%
modeling.gmf		OBEO									7%	11%
modening.gim		RedHatInc.								8%	7%	11%
		individual					45%	40%	33%	33%	21%	22%
		unknown					9%	6%				

User Community

Users are moderately active in submitting bugs, and rarely take part in resolving them by submitting patches (although this can be justified by complexity of the project sources, installation and testing procedures). Bugs come in a rate about 20+ a month, quite a lot of them are submitted either by developers themselves (sometimes based on description from the newsgroup/forum) or respective testing teams from sponsoring companies.

Judging by the newsgroup/forum posts in, a lot of users trying to utilize GMF are modeling/diagramming novices, with an intention to build a UML-like complex diagram right away. Of course, complexity of the diagraming domain and the GMF project often becomes an obstacle hard to overcome.

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

The nature of project doesn't allow reasonable use of the project deliverables without further extension/customization, hence user community in a certain sense is also adopter one.

Few commercial companies utilize the GMF project in their products, further extending it (primary contributors, Borland and IBM do). I believe runtime part of the GMF project is actively extended by users of IBM products but I don't posses any specific data.

List of IBM products that have adopted UML2:

- ③ IBM Data Studio 1.1
- (*) WebSphere Classic Federation Server for z/OS v9.5
- WebSphere Classic Replication Server for z/OS v9.5
- ⑦ Optim Data Privacy Solution 1.2
- ⑦ Rational Application Developer for Websphere Software 7.0.0.8
- ② Rational Software Architect
- ⑦ Rational Method Composer 7.2

- ③ IBM Rational Developer for System z 7.5
- ② Rational Software Modeler 7.5
- ⑦ Rational Data Architect 7.5
- Rational Application Developer for WebSphere Software 7.5.1
- ⑦ Rational Software Architect for WebSphere Software 7.5.1
- IBM InfoSphere Warehouse for DB2 for z/OS 9.5.2
- ③ Warehouse Tooling 2.2
- IBM InfoSphere Classic Federation Server for z/OS V10.1
- ⑦ Rational Software Architect Standard Edition 7.5.2
- ⑦ InfoSphere Data Architect 7.5.2.1
- WebSphere Service Registry and Repository v6.3
- IBM Rational Developer for System z 7.6
- InfoSphere Data Architect 7.5.2
- ⑦ Rational Software Architect Standard Edition 7.5.3
- ⑦ Rational Software Architect RealTime Edition 7.5.3
- ⑦ Cognos Diagnostic Tools 1
- ⑦ Rational EGL Community Edition 1.0
- ⑦ Rational Software Architect for WebSphere Software 7.5.4
- IBM Data Discovery and Query Builder 3.2
- ⑦ Resources Dependencies Analyzer 2.x.x

Learning

Documentation: http://wiki.eclipse.org/GMF_Documentation

Training

http://www.opcoach.com/en/Training_Courses.html http://www.tclsoftware.com.br/ http://www.itemis.com/itemis-ag/language=en/2642/education-and-coaching http://www.jeffreyricker.com/training.html http://www.obeo.fr/pages/training/en http://www.obeo.fr/pages/training/en http://www.eclipse-training.net/ http://www.inferdata.com/training/eclipse.html http://eclipsegang.com/ http://www.ancitconsulting.com/elearning.htm http://www.aclipseuniversity.org/ http://www.sierrawireless.com/productsandservices/AirVantage.aspx http://www.industrial-tsi.com/index.php?id=139

Support

Forum: http://www.eclipse.org/forums/eclipse.modeling.gmf Bugs: http://www.eclipse.org/forums/eclipse.modeling.gmf Bugs: http://www.eclipse.org/forums/eclipse.modeling.gmf

Consulting

http://www.opcoach.com/en/Consulting.html http://www.tclsoftware.com.br/ http://www.itemis.com/itemis-ag/language=en/2621/portfolio http://www.jeffreyricker.com/consulting.html http://www.obeo.fr/pages/mda-and-productivity/en http://www.inferdata.com/consult/index.html http://eclipsegang.com/ http://www.ancitconsulting.com/project.htm http://www.eclipseuniversity.org/serviceseclipse.htm http://www.sierrawireless.com/productsandservices/AirVantage.aspx http://www.industrial-tsi.com/index.php?id=139

Customizability

The customizability of the GMF runtime is described in detail in the SDK documentation at http://help.eclipse.org/galileo/topic/org.eclipse.gmf.doc/prog-guide/runtime/index.html.

Tools provided by the GMF project are quite elementary and are not capable to support great variety of user intentions. For example, experience suggests that quite a lot of diagrams users try to create are similar to UML class diagrams, and hence this use-case is handled much better than e.g. Interaction-kind diagrams. Creation of any diagram editor requires decent knowledge of the GEF framework and Java programming skills to produce a reasonable product that uses GMF facilities.

Extensibility

Extensibility of the GMF runtime is described in the Programmer's Guide at <u>http://help.eclipse.org/galileo/topic/org.eclipse.gmf.doc/prog-</u>guide/runtime/Developer%20Guide%20to%20Diagram%20Runtime.html.

The project, and its Tooling part in particular, promotes Model-Driven Software Development (MDSD) approach, giving educated user a high degree of control over the development process. Provided tools, if not suitable for the task at hand, may serve as a starting point to build tailored toolkit – e.g., augmented models and custom templates allow clients to patch open(uncovered) areas or to override any aspect of the final diagram editor.

Adopters of the GMF project are not however forced to use provided tools altogether, old-fashioned handcoding techniques are always an option.

Runtime aspect heavily relies on the underlaying GEF framework, adding regular Eclipse extension mechanism (extension points) and a lot of reusable components most of GEF users can benefit from. That is, as long as user intentions do not conflict with the GEF's approach to diagraming, GMF is quite flexible to accommodate to almost any desire.

Scalability

The primary scalability issue (as for almost any other modeling product) is scalability of models, and this holds true both for execution and design time of a diagram editor.

GMF Runtime is known to be used in a great variety of applications, and the team pays a lot of attention to performance and scalability issues. The GMF Runtime does not address the scalability of the files its generated, this is handled by EMF. The scalability of GMF graphical diagrams are limited only by what the GEF feature set provides.

Usability

The GMF project allows the creation of graphical diagrams with significant out of the box diagramming capabilities.

GMF based diagrams are fully keyboard accessible <u>http://help.eclipse.org/galileo/topic/org.eclipse.gmf.doc/prog-</u> guide/runtime/Developer%20Guide%20to%20Keyboard%20Accessibility.html.

Interoperability

GMF relies on EMF, de-facto standard in the Modeling world.

Dependencies

http://www.eclipse.org/modeling/gmf/downloads/

Eclipse EMF EMF (Core) EMF Query EMF Transaction EMF Validation GEF MDT OCL MDT UML2 Orbit M2M QVT-o

Standards

Diagram Definition

GMT Epsilon

Generative Modeling Technologies Epsilon

Overview

http://www.eclipse.org/gmt/epsilon/

Epsilon provides a family of metamodel-agnostic languages for creating, querying and modifying EMF (and other types of) models in various ways. At the core of Epsilon is the <u>Epsilon Object Language</u> (<u>EOL</u>), an imperative model-oriented language that combines the procedural style of Javascript with the powerful model querying capabilities of OCL. Epsilon also provides several task-specific languages, which use EOL as an expression language. Each task-specific language provides constructs and syntax that are tailored to the specific task.

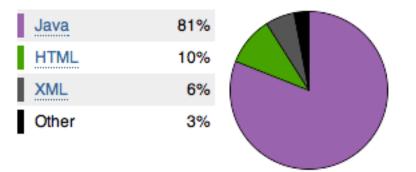
Licensing

http://www.ohloh.net/p/8615/analyses/latest

Eclipse Public License	1659 files
New BSD License	43 files
BSD Copyright	1 files

Platforms / Languages

http://www.ohloh.net/p/8615/analyses/latest



Home Page: <u>http://www.eclipse.org/gmt/epsilon/</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.gmt.epsilon</u> Wiki Page: http://wiki.eclipse.org/Epsilon

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.gmt.epsilon</u> New & Noteworthy: N/A Release Notes: N/A

Release Timeline

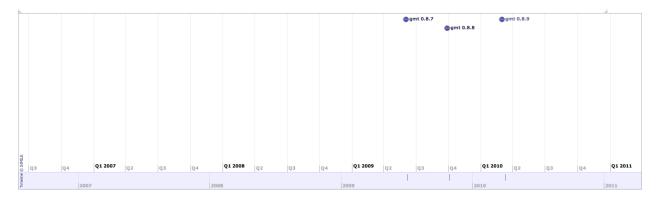
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.gmt.epsilon



The Eclipse update site for this project is http://download.eclipse.org/modeling/gmt/epsilon/updates/.

0.8.9: 2010-04-01 planned 0.8.8: 2009-10-28 completed 0.8.7: 2009-07-03 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.gmt.epsilon

Lead(s) Dimitris Kolovos, individual

Committers

Dimitris Kolovos, individual Louis Rose, individual

Mailing List: http://dev.eclipse.org/mhonarc/lists/gmt-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.gmt.epsilon

		by	login		by 3-	ty					
	one	three	six	nine		one	three	six	nine	(9-6-3)	
dkolovos		506	1,055	2,020	dkolovos		506	1,055	2,020		C
*langlois				50	lrose	245	511	1,422	2,525		ri
lrose	245	511	1,422	2,525	* langlois				50	—	b d n a c

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.gmt.epsilon

Company	Active y Committers		Inactive Committers				Percent Commits Active (2010)			
individual								247 (100%	,	•
Total	2		1		3			247	247	

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010				2002	2003	2004	2005	2006	2007	2008	2009	2010
		Thales									1%	
modeling.gmt.epsilon		<u>individual</u>								100%	99%	100%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010				2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
r	nodeling.gmt.epsilon		Thales 1									33%	
			<u>individual</u>								100%	66%	100%

User Community

There are currently 1161 posts in the eclipse.epsilon newsgroup. Also, there are at least 200 more posts about Epsilon in the old eclipse.modeling.gmt newsgroup. In February 2010, the Epsilon web-site had 2,263 unique and 836 returning visitors who generated a total of 6,551 page loads (source: statcounter.com).

Adopter Community

Epsilon has been reused in the context of the GenGMF project (<u>http://gengmf.randomice.net</u>) and the Symphony model editor (<u>http://stephaneerard.wordpress.com/2009/06/09/symfony-model-editor/</u>).

Correspondence in the newsgroup indicates further adoption in additional projects for which however there is no tangible evidence.

Learning

Documentation: http://www.eclipse.org/gmt/epsilon/doc/

Training

The committers of the project are providing training on request. Parts of Epsilon are also taught/used in the context of graduate/postgraduate courses:

http://seblog.cs.uni-kassel.de/wp-content/uploads/2009/11/SE2_Uebung4.pdf http://www.uio.no/studier/emner/matnat/ifi/INF5120/v10/undervisningsplan.xml http://cs.ubbcluj.ro/~ilazar/bm/

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.epsilon</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=GMT&component=Epsilon</u>

Consulting

The committers of the project are providing consulting services on request.

Customizability

The languages provided by Epsilon can be used both within and outside Eclipse and can be integrated with each other as well as with non-MDE languages and tools through ANT tasks.

Extensibility

Extensibility has been one of the main architectural attributes in Epsilon. The platform provides a core language (EOL) on top of which other task-specific languages can be built. Also, it provides EMC, an abstraction layer (<u>http://www.eclipse.org/gmt/epsilon/doc/emc</u>) that allows developers to extend Epsilon with support for additional modelling technologies.

Scalability

Epsilon has been tested with EMF models (provided by industrial partners) up to ~100MB. Improved support for large models is currently being investigated in two different research strands (integration with CDO / use of embedded databases).

Usability

Epsilon provides editors with syntax highlighting and error reporting, dedicated launch configurations for configuring models and executing Epsilon programs within Eclipse and a number of additional views/editors to simplify common MDE tasks.

Interoperability

Epsilon can work with any EMF-based tool. Also, all languages within Epsilon are interoperable with each other and can be combined through their respective ANT tasks into complex workflows (that can also involve normal, non-MDE ANT tasks).

Dependencies

http://www.eclipse.org/gmt/epsilon/download/

Eclipse EMF EMF (Core) GMF

Standards

None.

GMT MoDisco

Generative Modeling Technologies Model Discovery

Overview

http://www.eclipse.org/gmt/modisco/

Legacy systems embrace a large number of technologies, making the development of tools to cope with legacy systems evolution a tedious and time consuming task. As modernization projects face with both technologies combination and various modernization situations, model-driven approaches and tools offer the requisite abstraction level to build up mature and flexible modernization solutions. MoDisco provides an extensible framework to develop **model-driven tools** to support use-cases of **existing software modernization**.

Licensing

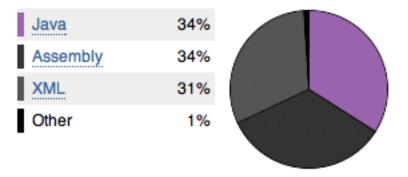
http://www.ohloh.net/p/MoDisco/analyses/latest

Eclipse Public License

2484 files

Platforms / Languages

http://www.ohloh.net/p/MoDisco/analyses/latest



Home Page: <u>http://www.eclipse.org/gmt/modisco/</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.gmt.modisco</u> Wiki Page: <u>http://wiki.eclipse.org/MoDisco</u>

Predictability

Release Train? Yes <u>http://wiki.eclipse.org/Helios/Participating_Projects</u> <u>http://wiki.eclipse.org/Galileo#Projects</u> <u>http://wiki.eclipse.org/Ganymede#Projects</u> <u>http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects</u> <u>http://www.eclipse.org/callisto/callistoprojects.php</u>

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.gmt.modisco</u> New & Noteworthy: <u>http://wiki.eclipse.org/MoDisco/New_And_Noteworthy</u> Release Notes: N/A

Release Timeline

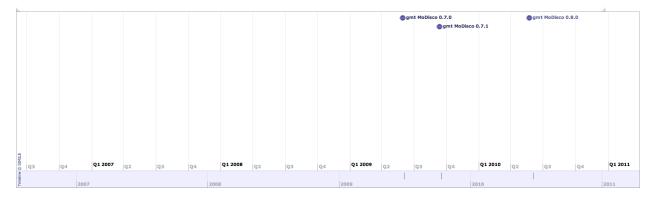
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.gmt.modisco

Releases

The Eclipse update site for this project is http://download.eclipse.org/modeling/gmt/modisco/updates/release/.

MoDisco 0.8.0: 2010-06-23 planned MoDisco 0.7.1: 2009-10-12 completed MoDisco 0.7.0: 2009-06-30 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.gmt.modisco

Lead(s) Hugo Bruneliere, INRIA

Committers

Gabriel Barbier, Mia Software Nicolas Bros, Mia Software Hugo Bruneliere, INRIA Gregoire Dupe, Mia Software Fabien Giquel, Mia Software Frederic Madiot, Mia Software

Mailing List: http://dev.eclipse.org/mhonarc/lists/gmt-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.gmt.modisco

		by	login		by 3	-6-9	month	activi	ity		
	one	three	six	nine		one	three	six	nine	(9-6-3)	
*dford					fgiquel	193	1,311	1,311	1,311		Graphs t
*fallilaire					gbarbier	260	779	2,111	16,674		right indi
fgiquel	193	1,311	1,311	1,311	gdupe	686	1,599	1,607	1,607		by the co slope dov
fmadiot					hbrunelie	31	31	9,170	9,260		decreasir
gbarbier	260	779	2,111	16,674	nbros	542	1,163	2,405	2,405		nine, six
gdupe	686	1,599	1,607	1,607	*dford						activity h
hbrunelie	31	31	9,170	9,260	*fallilaire						commu
nbros	542	1,163	2,405	2,405	fmadiot						

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.gmt.modisco

Company		ctive mitters		active mitters	Co	Total ommitters	Percent Active		mmits 2010)			Approx. LOC per Commit
INRIAInstitutenationalderecherch	1	(20%)	0	(0%)	1	(14.29%)	100%	2	(0.11%)	31	(1.68%)	16
Mia-Software	4	(80%)	0	(0%)	4	(57.14%)	100%	1,784	(99.89%)	1,813	(98.32%)	1
Total	5		2		7			1,786		1,844		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		IBM									1%	
modeling emt modices		INRIAInstitutenationalderecherch						98%	100%	100%	45%	1%
modeling.gmt.modisco		Mia-Software									54%	98%
		<u>OBEO</u>						1%				

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010		2001	2002	2003	2004	2005	2006	2007 2	008 2009	2010
IBM									16%	
INRIAInstitutenationalderecherch						50%	100%	100%	16%	20%
Mia-Software									66%	80%
<u>OBEO</u>						50%				

User Community

MoDisco is a relatively new project and the project team is still in the process of developing its community. For instance, MoDisco is going to migrate in the coming months from GMT to EMFT in order to get more visibility. Other Eclipse projects, such as B3, are also currently evaluating several MoDisco components for future use (cf. this EclipseCon 2010 talk

http://www.eclipsecon.org/2010/sessions/sessions?id=1175).

Public communication with users is done in the forum: http://www.eclipse.org/forums/eclipse.modisco

Metrics:

- i. Downloads
 - a. Number of update sites (since available: July 2009) 164
 - Number of builds (since the Releng Process has been set in MoDisco: end of October 2009) – 228

ii. Involvement. Number of bugs opened over time (and, if possible, by whom). Number of newsgroup/forum posts over time (and, if possible, by whom).

Year	Opened bugs	Newsgroup posts
2008	4	5
2009	71	67
2010 (until the 5 th of March)	49	24

Adopter Community

Several MoDisco components have already been concretely deployed and used internally in both INRIA and Mia-Software (which provide all current MoDisco committers) for various projects and purposes. MoDisco is also directly referenced from the OMG ADM (Architecture Driven Modernization) task force web page as the source for concrete implementations of their KDM and SMM standards.

In addition to this, here is a list of some organization/companies which have already expressed their interest in MoDisco: <u>http://www.eclipse.org/gmt/modisco/interestedParties.php</u>

Learning

The documentation available for GMT MoDisco is rather lacking and thus it would probably have a very steep learning curve.

Documentation: http://wiki.eclipse.org/MoDisco#Documentation

Training

http://www.mia-software.com/en/services/

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.modisco</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=GMT&component=MoDisco</u>

Consulting

http://www.mia-software.com/en/services/

Customizability

MoDisco, and more particularly its infrastructure, has been clearly designed to be highly customizable. The MoDisco browser, query manager, and discovery manager are examples of generic components whose main intent is to be customized for concrete applications on specific technologies and corresponding reverse engineering scenarios.

Extensibility

MoDisco has a three-layer architecture which is focused on extensibility:

- "Infrastructure" provides a set of generic tools which can be easily extended.
- "Technologies" provides some support, based on customizations of the generic infrastructure, for specific technologies such as Java or XML. Of course, the team plans to have many other contributions, in the future, on different technologies (C++, C#, etc).
- "Use cases" provides a set of concrete applications of the MoDisco components on various reverse engineering scenarios. For demonstrability purposes, the team also wants to increase the number of available use cases in the future.

Scalability

Scalability is an issue directly related to the reverse engineering field, for instance when dealing with models of huge legacy systems. MoDisco is making significant progresses in this direction by using all the capabilities from EMF and by currently experimenting on what could be done with other related projects such as CDO.

While MoDisco aims to employ EMF CDO to help with scalability issues in its reverse engineering support, it's uncertain how viable this will be. The real issue of dealing with complexity and proper abstraction are not likely something that CDO can help with, rather it is something that the MoDisco project would have to provide as part of its own functionality.

Usability

Usability is also an important issue in reverse engineering. The project team is trying as much as possible to facilitate the building and execution of the MoDisco solutions by providing a set of browsers, managers, wizards, etc., as part of a complete IDE.

Interoperability

MoDisco, as a technology-independent reverse engineering platform, is really focused on addressing the interoperability problem. This is primarily supported by the use of models, conforming to explicit metamodels (in EMF), which are highly exchangeable and transformable. Moreover, the project team is working in strong collaboration with the OMG ADM (Architecture Driven Modernization) task force by using several of their metamodel specifications for which MoDisco provides concrete open source EMF implementations.

Dependencies

http://www.eclipse.org/gmt/modisco/download/

BIRT Eclipse EMF CDO EMF Compare EMF EMF (Core) EMF Validation JDT M2M ATL M2T Acceleo M2T JET MDT UML2 Orbit (org.apache.commons.jxpath, org.apache.derby) PDE

Standards

Knowledge Discovery Metamodel (KDM) Software Metrics Metamodel (SMM)

GMT UMLX

Generative Modeling Technologies UMLX

Overview

http://www.eclipse.org/gmt/umlx/

UMLX is a concrete graphical syntax to complement the <u>OMG QVT</u> model transformation language. UMLX will conform to at least one of the QVT Export/XMI-Export Core/Relations conformance points, so that UMLX originated transformations can be used in any QVT execution environment. Much of UMLX corresponds closely to QVT relational, so the first releases will subset UMLX towards the shared capabilities. The more extensive UMLX concepts, particularly regarding multiplicity will require careful consideration of whether they can sensibly extend QVT relational, or whether it is necessary to go direct to QVT core, or to prototype an extended QVT relational for consideration by a future QVT. Conversely, QVT relational and possibly QVT core concepts that are useful may merit extension of UMLX.

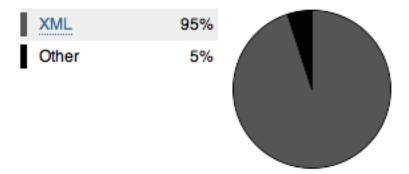
Licensing

http://www.ohloh.net/p/umlx/analyses/latest

(Eclipse Public License)

Platforms / Languages

http://www.ohloh.net/p/umlx/analyses/latest



Home Page: <u>http://www.eclipse.org/gmt/umlx/</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.gmt.umlx</u> Wiki Page: N/A

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: N/A New & Noteworthy: N/A Release Notes: N/A

Release Timeline

http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.gmt.umlx

N/A

Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.gmt.umlx

Lead(s)

Ed Willink, Thales

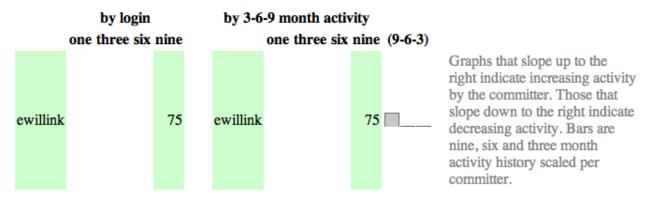
Committers

Ed Willink, Thales

Mailing List: http://dev.eclipse.org/mhonarc/lists/gmt-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.gmt.umlx



Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.gmt.umlx

	Active	Inactive	Total	Percent	Commits	Lines of Code	Approx. LOC
Company	Committers	Committers	Committers	Active	(2010)	(2010)	per Commit
Total	0	1	1		0	0	

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
modeling.gmt.umlx		Thales								100%	100%	

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
modeling.gmt.umlx	Thales								100%	100%	

User Community

N/A

Adopter Community

N/A

Learning

Documentation: http://www.eclipse.org/gmt/umlx/doc/index.html

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.umlx</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=GMT&component=UMLX</u>

Consulting N/A

Customizability

N/A

Extensibility

N/A

Scalability

N/A

Usability

N/A

Interoperability

N/A

Dependencies http://www.eclipse.org/gmt/umlx/download/

N/A

Standards

MOF Query/View/Transformation (QVT)

M2M ATL

Model to Model ATLAS Transformation Language

Overview

http://www.eclipse.org/m2m/atl/

ATL (ATLAS Transformation Language) is a model transformation language and toolkit. In the field of Model-Driven Engineering (MDE), ATL provides ways to produce a set of target models from a set of source models. Developed on top of the Eclipse platform, the ATL Integrated Environnement (IDE) provides a number of standard development tools (syntax highlighting, debugger, etc.) that aims to ease development of ATL transformations. The ATL project includes also a library of ATL transformations.

n _N____

Licensing

http://www.ohloh.net/p/atl/analyses/latest

 Eclipse Public License
 585 files

 Platforms / Languages
 http://www.ohloh.net/p/atl/analyses/latest

 Assembly
 60%

 Java
 19%

 HTML
 16%

 Other
 5%

Home Page: <u>http://www.eclipse.org/m2m/atl/</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2m.atl</u> Wiki Page: <u>http://wiki.eclipse.org/ATL</u>

Predictability

Release Train? Yes http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.m2m.atl</u> New & Noteworthy: <u>http://wiki.eclipse.org/ATL 3.0.0 New and Noteworthy</u> Release Notes: N/A

Release Timeline

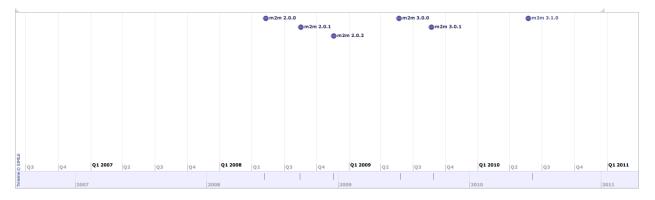
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.m2m.atl



The Eclipse update site for this project is http://www.eclipse.org/modeling/m2m/updates/.

- 3.1.0: 2010-06-23 planned
- 3.0.1: 2009-09-22 completed
- 3.0.0: 2009-06-22 completed
- 2.0.2: 2008-12-19 completed
- 2.0.1: 2008-09-17 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2m.atl

Lead(s) Frédéric Jouault, INRIA

Committers

Freddy Allilaire, Obeo Mikaël Barbero, Obeo Matthias Bohlen, individual Frédéric Jouault, INRIA William Piers, Obeo Dennis Wagelaar, individual

Mailing List: http://dev.eclipse.org/mhonarc/lists/m2m-atl-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.m2m.atl

		by l	ogin		by 3	3-6-9 mo	nth activ	ity		
	one	three	six	nine		one	three	six	nine	(9-6-3)
*ebrandon					fjouault		66,527	66,527	66,603	
dwagelaar			52	52	wpiers	100,565	141,864	159,850	161,527	
fallilaire					dwagelaar			52	52	
fjouault		66,527	66,527	66,603	*ebrandon					
mbarbero					fallilaire					
mbohlen					mbarbero					
*mdidonetdelfabro					mbohlen					
wpiers	100,565	141,864	159,850	161,527	*mdidonetdelfabro					

Graphs that slope up to the ight indicate increasing activity by the committer. Those that lope down to the right indicate lecreasing activity. Bars are tine, six and three month citivity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.m2m.atl

Company		tive mitters		nactive mmitters	Co	Total ommitters	Percent Active		ommits 2010)			Approx. LOC per Commit
INRIAInstitutenationalderecherch	1	(50%)	0	(0%)	1	(12.5%)	100%	22	(7.91%)	66,511	(35.03%)	3023
OBEO	1	(50%)	2	(33.33%)	3	(37.5%)	33.33%	256	(92.09%)	123,334	(64.97%)	482
Total	2		6		8			278		189,845		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		ILOG						1%	1%			
modeling.m2m.atl		INRIAInstitutenationalderecherch					96%	90%	80%	2%	1%	35%
modeling.mzm.au		<u>OBEO</u>					3%	7%	14%	92%	96%	64%
	- T	individual					1%	1%	5%	5%	3%	

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		ILOG						20%	14%			
modeling.m2m.atl		INRIAInstitutenationalderecherch				100%	33%	20%	14%	20%	33%	50%
modening.mzm.au		<u>OBEO</u>					33%	40%	42%	60%	33%	50%
		individual					33%	20%	28%	20%	33%	

User Community

ATL was on Eclipse GMT for 2004 to 2006 then it moved to M2M, attracting more and more research and industrial users. The ATL community is very active on the newsgroup (more than 2000 messages from its creation).

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

The ATL project was initiated by big IT companies and is always used in such context, as well as in research projects. Various use cases have been achieved using ATL: interoperability, high-order transformations, PIM to PSM approach, model measurement... Some of them are public and available on the ATL website: http://www.eclipse.org/m2m/atl/usecases/.

Learning

ATL appears in the Eclipse Help contents accessible through either the "Help" menu or the "F1" shortcut. The ATL documentation is managed in a community way, as it is hosted on Eclipse wiki pages. The ATL Eclipse help is generated from these.

Documentation: http://www.eclipse.org/m2m/atl/doc/

Training

http://www.atl-pro.com/pages/training/en

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.modeling.m2m</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=M2M&component=ATL-Engine</u>

Consulting

http://www.obeo.fr/pages/mda-and-productivity/en

Customizability

ATL development tools allow the customization of ATL editor basic parameters, such as syntax colors, code assist.

Extensibility

ATL provide extensibility to manage specific cases of transformations, at three levels:

- **Model management:** Users can redefine, through a set of extension points, the way the models are loaded and saved. For instance it can be used to support a specific model extraction.
- **Execution:** The current ATL virtual machine can be extended to support custom types and to add specific operations.
- **Platform:** In a larger scope, the ATL virtual machine is defined by a specification which explains the minimal set of instructions to implement, so it could be rewritten in another language in order to allow execution of ATL transformation on another platform.

More details about ATL architecture and extensibility can be found in the ATL Developer documentation: <u>http://wiki.eclipse.org/ATL/Developer_Guide</u>.

Scalability

For two years, ATL performance issues have been strongly reduced by the implementation of a new ATL virtual machine - the core of ATL execution - which divided execution times from 10 to 60 (mainly depending of the model size).

A regular performance check is done by ATL non-regression tests: some tests are considered as benchmarks as they take much more time than the average of transformations. Those test have been used to measure the latest performance improvements.

Usability

ATL provides several ways to launch transformations:

- a specific Launch configuration, initialized from the content of ATL files allow to directly launch the transformation in Eclipse
- ③ a set of specific Ant tasks allow to chain transformations with each other and provides an accurate management of loading/saving of models
- ② a wizard allow to generate a plugin embedding the transformation, synchronized with Java code dedicated to a programmatic launch. The generated plugin can be exported as a standalone application

The ATL development tools provides an Editor, a Debugger, a Profiler, and a set of wizards to ease ATL development. The ATL editor offers advanced functionalities like code folding, syntax highlighting, smart completion, navigation to definitions and references, error highlighting, outline.

The ATL editor has been strongly enhanced in the ATL 3.1 (Helios) release, especially about completion and navigation.

ATL execution errors are displayed into the Eclipse console, enhanced with hyperlinks allowing to navigate through errors to the guilty code inside of the ATL editor.

Interoperability

ATL is interoperable with any EMF-based model. An optional support for MDR models is provided. ATL can be used on any eclipse from 3.2 to the latest (Helios - 3.6 at the time of writing).

An in-place transformation mode also allow modifications without any desynchronization between the model and the associated diagrams.

Dependencies

http://www.eclipse.org/modeling/m2m/downloads/index.php?project=atl

Eclipse EMF EMF (Core) Orbit

Standards

None.

M2M QVTd

Model to Model Declarative Query/View/Transformation

Overview

http://wiki.eclipse.org/M2M/Relational_QVT_Language_%28QVTR%29

The QVT Declarative (QVTd) component aims to provide a complete Eclipse based IDE for the Core (QVTc) and Relations (QVTr) Languages defined by the OMG <u>QVT</u> Relations (QVTR) language. This goal includes all development components necessary for development of QVTc and QVTr programs and APIs to facilitate extension and reuse.

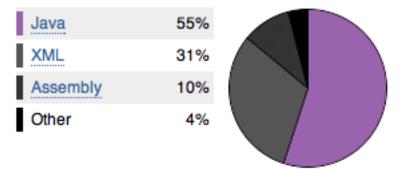
Licensing

https://www.ohloh.net/p/m2m-qvtd/analyses/latest

Eclipse Public License 1450 files

Platforms / Languages

https://www.ohloh.net/p/m2m-qvtd/analyses/latest



Home Page: N/A

Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2m.qvt-relations</u> **Wiki Page:** <u>http://wiki.eclipse.org/M2M/QVT_Declarative_(QVTd</u>)

Predictability

Release Train? No

http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.m2m.qvt-relations</u> New & Noteworthy: N/A Release Notes: N/A

Release Timeline

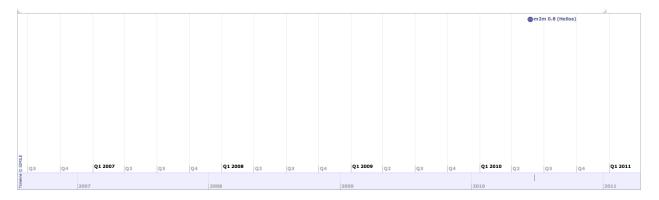
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.m2m.qvt-relations



The Eclipse update site for this project is /modeling/m2m/updates/.

0.8 (Helios): 2010-06-23 planned 💌 🔳

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2m.qvt-relations

Lead(s)

Ed Willink, Thales

Committers

Frederic Jouault, INRIA Ed Willink, Thales

Mailing List: http://dev.eclipse.org/mhonarc/lists/m2m-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.m2m.qvt-relations



Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.m2m.qvt-relations

Company	-	Active nmitters		active mitters	Co							Approx. LOC per Commit
Thales	1	(100%)	0	(0%)	1	(50%)	100%	97	(100%)	11,79	(100%)	122
Total	1		1		2			97		11,79	7	

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010				2002	2003	2004	2005	2006	2007	2008	2009	2010
		Thales								96%	54%	100%
modeling.m2m.qvt-relations		<u>individual</u>								3%	45%	

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010				2002	2003	2004	2005	2006	2007	2008	2009	2010
		Thales								50%	50%	100%
modeling.m2m.qvt-relations		<u>individual</u>								50%	50%	

User Community

N/A

Adopter Community

N/A

Learning

Documentation: http://wiki.eclipse.org/M2M/QVT Declarative (QVTd)

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.modeling.m2m</u> **Bugs:** <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=M2M&component=QVT_Relations-Engine</u>

Consulting N/A

Customizability

N/A

Extensibility

N/A

Scalability

N/A

Usability

N/A

Interoperability

N/A

Dependencies N/A

Standards OMG MOF Query/View/Transformation (QVT)

M2M QVTo

Model to Model Operational Query/View/Transformation

Overview

http://wiki.eclipse.org/M2M/Operational_QVT_Language_%28QVTO%29

QVT Operational component provides an implementation of the QVT Operational Mapping language defined by the OMG Query/View/Transformation Specification (QVT).

The component provides the following capabilities:

- · Semantically sensitive editor for QVT Operational language
- QVT Operational project nature, builder
- Support for black-box libraries (Java code accessible from QVT)
- Transformation invocation Java API
- Execution engine & debugger

Licensing

http://www.ohloh.net/p/10145/analyses/latest

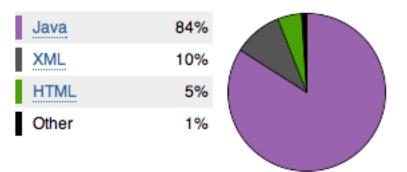
Eclipse Public License

1541 files

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Platforms / Languages

http://www.ohloh.net/p/10145/analyses/latest



Home Page: N/A Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2m.qvt-oml</u> Wiki Page: http://wiki.eclipse.org/M2M/Operational QVT Language %28QVTO%29

Predictability

Release Train? Yes <u>http://wiki.eclipse.org/Helios/Participating_Projects</u> <u>http://wiki.eclipse.org/Galileo#Projects</u> <u>http://wiki.eclipse.org/Ganymede#Projects</u> <u>http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects</u> <u>http://www.eclipse.org/callisto/callistoprojects.php</u> Plan: N/A New & Noteworthy: <u>http://wiki.eclipse.org/M2M/QVTO/New_and_Noteworthy/Galileo</u> Release Notes: N/A

Release Timeline

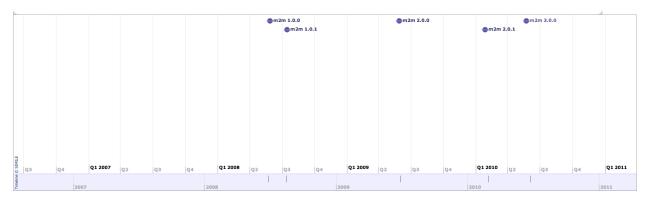
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.m2m.qvt-oml

Releases

The Eclipse update site for this project is http://download.eclipse.org/modeling/m2m/qvtoml/updates/milestones/site.x

3.0.0: 2010-06-23 planned
2.0.1: 2010-02-26 completed
2.0.0: 2009-06-28 completed
1.0.1: 2008-08-15 completed
1.0.0: 2008-06-27 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2m.qvt-oml

Lead(s)

Radomil Dvorak, Borland Software

Committers

Sergey Boyko, Borland Software Radomil Dvorak, Borland Software Aleksandr Igdalov, Borland Software

Mailing List: http://dev.eclipse.org/mhonarc/lists/m2m-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.m2m.qvt-oml

		by l	login		i	by 3-6-9	9 month	activity		
	one	three	six	nine		one	three	six	nine	(9-6-3)
aigdalov					radvorak		1,416	66,107	69,605	
mfeldman					sboyko	19,273	115,687	246,903	247,068	
radvorak		1,416	66,107	69,605	aigdalov					
sboyko	19,273	115,687	246,903	247,068	*uid8762					
*uid8762					mfeldman					

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.m2m.qvt-oml

Company	-	Active nmitters		Inactive ommitters					Lines of Code (2010)	Approx. LOC per Commit
BorlandSoftwareCorp.	2	(100%)	1	(33.33%)	3	(60%)	66.67%	495 (100%)	115,628 (100%)	234
Total	2		3		5			495	115,628	

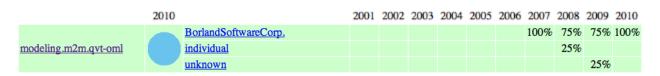
Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		BorlandSoftwareCorp.							100%	99%	99%	100%
modeling.m2m.qvt-oml		<u>individual</u>								1%		
	\frown	<u>unknown</u>									1%	

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active



User Community

N/A

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

Commercial add-on plugins: http://www.borland.com/us/products/together/index.html .

Query language in code generation templates: http://www.eclipse.org/modeling/gmf/.

Learning

Documentation: http://wiki.eclipse.org/M2M/Operational_QVT_Language_%28QVTO%29

Training

N/A

Support

Forum: http://www.eclipse.org/forums/eclipse.modeling.m2m Bugs: https://www.eclipse.org/forums/eclipse.modeling.m2m Bugs: https://www.eclipse.org/forums/eclipse.modeling.m2m

Consulting

dvorak.radek@gmail.com

Customizability

QVT Operational provides transformation invocation Java API enabling the user to integrate his transformation logic to a specific application at deployment time.

It is fairly straightforward to customize M2M QVTo (e.g., by creating a workflow component with RSA RT through MWE).

Extensibility

QVT Operational mapping language including the Standard Library is defined by OMG specification. Functionality not available by default can be integrated via black-box libraries, supported as regular Java implementation classes.

Extension is possible, however, it is not as easy to do as with languages like Xtend (which comes with Xpand). A much simpler way of doing so would have to be provided so that the average transformation implementer could make use of it.

Scalability

N/A

One of the issues with QVTo when it comes to very large models is the book keeping that it does. This book keeping (e.g. traceability) is useful, however, it is also very resource intensive.

Usability

QVT Operational component adopts common UI elements and approaches introduced in Eclipse IDE by JDT and other projects. It provides semantically sensitive editor with code assist, syntax & semantical highlighting, outlines, hyperlinks. The QVT project builder produces problem markers for syntax and validation errors. Dedicated launch configurations can be used to start QVT transformations in Run/Debug mode.

A common complaint with QVTo is its lack of debugging facilities. To develop complex transformations, a debugger is essential and what is provided in QVTo is not sufficient. In terms of the language and support provided by transformation engine, however, this project is very good.

Interoperability

The implementation supports the Syntax Executable interoperability dimension specified by OMG.

Dependencies

http://www.eclipse.org/modeling/m2m/downloads/index.php?project=qvtoml

Eclipse EMF EMF (Core) MDT OCL MDT UML2

Standards OMG MOF Query/View/Transformation (QVT)

M2T Acceleo

Model to Text Acceleo

Overview

http://www.eclipse.org/modeling/m2t/?project=acceleo

<u>Acceleo</u> is a pragmatic implementation of the Object Management Group (OMG) MOF Model to Text Language (MTL) standard. You do not need to be an expert to start using the plug-ins and create your first code generator: using the provided example projects and the powerful completion feature of the Acceleo editor, it is very easy to get started once you understand the basic principles.

Licensing

http://www.ohloh.net/p/acceleo-eclipse/analyses/latest

 Eclipse Public License
 641 files

 Platforms / Languages
 http://www.ohloh.net/p/acceleo-eclipse/analyses/latest

 Java
 78%

 XML
 11%

 HTML
 10%

 Other
 1%

Home Page: <u>http://www.eclipse.org/modeling/m2t/?project=acceleo</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2t.acceleo</u> Wiki Page: <u>http://wiki.eclipse.org/Acceleo</u>

Predictability

Release Train? Yes

http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.m2t.acceleo</u> New & Noteworthy: <u>http://wiki.eclipse.org/Acceleo/New_And_Noteworthy</u> Release Notes: <u>http://www.eclipse.org/modeling/m2t/news/relnotes.php?project=acceleo&version=HEAD</u>

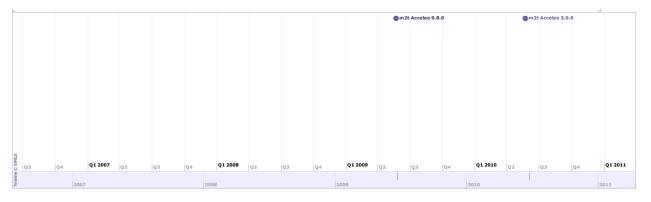
Release Timeline

http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.m2t.acceleo



Acceleo 0.8.0: 2009-06-22 completed 💽

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2t.acceleo

Lead(s)

Jonathan Musset, Obeo

Committers

Wim Bast Cedric Brun, Obeo Laurent Goubet, Obeo Arian Kok Yvan Lussaud, Obeo Jonathan Musset, Obeo

Mailing List: http://dev.eclipse.org/mhonarc/lists/m2t-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.m2t.acceleo

		by	login		by	3-6-9	9 montl	ı activit	y	
	one	three	six	nine		one	three	six	nine	(9-6-3)
akok					jmusset	862	1,656	6,164	17,506	
cbrun					lgoubet	756	11,472	23,308	29,818	
jmusset	862	1,656	6,164	17,506	ylussaud		36	1,082	1,082	
lgoubet	756	11,472	23,308	29,818	akok					
wibast					cbrun					
ylussaud		36	1,082	1,082	wibast					

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.m2t.acceleo

Company	-	Active mmitters		nactive mmitters	Co							Approx. LOC per Commit
OBEO	2	(100%)	2	(100%)	4	(100%)	50%	136	(100%)	1,676	(100%)	12
Total	2		2		4			136		1,676		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
modeling.m2t.acceleo	<u>OBEO</u>								100%	100%	100%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
modeling.m2t.acceleo	<u>OBEO</u>								100%	100%	100%

User Community

Acceleo.org was created 4 years ago, and as time passed, the project team has been more and more convinced that the MOF Model To Text OMG specification was the way to go for the project.

The project team is confident that the Acceleo community gains value by moving from a self-hosted project to an Eclipse one, and that end users will follow the transfer from Acceleo.org to Eclipse.org since they'll provide the same level of functionality and insure an interoperability between the old syntax and the new standard syntax.

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

Acceleo has been used by big IT and industrial companies as their main generation tool for a while now, with EMFT / EEF being one of the first large project to start up with the new Acceleo as its main generation engine.

Learning

Acceleo appears in the Eclipse Help contents accessible through either the "Help" menu or the "F1" shortcut.

Documentation: http://wiki.eclipse.org/Acceleo

Training http://www.obeo.fr/pages/training/en

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.modeling.m2t</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=M2T&component=Acceleo</u>

Consulting

http://www.obeo.fr/pages/mda-and-productivity/en

Customizability

The extension point org.eclipse.acceleo.ide.ui.proposal allows clients to add whatever "code template" they need to the completion proposal list. These code templates work pretty much the same as do Java "template" proposals in that they allow for the insertion of any text in the module file, be it static text or dynamic template element such as OCL expressions.

Extensibility

Acceleo offers much in terms of language extensibility, yet it also provides some means for the users to add additional behavior to the wizards. In no particular order:

② Dynamic templates (through the extension point

org.eclipse.acceleo.engine.dynamic.templates). This allows users of a given generation module to dynamically extend it and override its templates. The author of the original module does not need to be aware of dynamic extensions: they'll be resolved at runtime if present and automatically called instead of the original.

- Evaluation engine replacement (through the extension point org.eclipse.acceleo.engine.creator). This allows clients to totally swap implementations of the evaluation engines, or decorate the provided generic implementation. This is only intended to be used by advanced users.
- Module file initialization templates (through the extension point org.eclipse.acceleo.ide.ui.example). This extension point allows clients to define new examples for the initialization of new module files created through the "new->module file" wizard. Selection of examples is made in the advanced options tab.
- Interoperability. The conjonction of extension points org.eclipse.acceleo.common.library.connectors and org.eclipse.acceleo.common.libraries allows clients to add interoperability possibilities between Acceleo and other languages. Planned additions of the sort are ways to call ATL and QVTo helpers from Acceleo templates.

Scalability

The project team has yet to stress test Acceleo for scalability purposes. Community feedback is globally positive and enthusiastic about the generation performance.

Usability

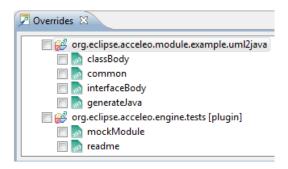
Acceleo can automatically generate a Java class alongside the MTL modules so as to allow for an easy launch of that module's generation. The only necessary step for this is to add this specific comment inside the main template(s) of the module(s): [comment @main/].

Once this Java class generated, it is quite easy to launch the generation from Eclipse through the specific "Acceleo" launch configuration. These launch configurations allow for either "plugin" launch or "application" launch.

Acceleo also provides the possibility to create a new "UI module" which automatically generates all necessary code to launch a generation module through a popup menu action. This is done by contributing an "Acceleo => generate code" menu action against all models having the required file extension.

Acceleo can be used either from within Eclipse or in standalone. RCP and headless mode are then supported as well.

The tooling provides a fair number of views and actions to help users in creating their generation modules. An example of this would be the "overrides" view that allow users to create module files extending the selected existing modules:



The provided editor also offers all functionalities one could expect from modern code editors: code folding, syntax highlighting, smart completion, navigation to definitions and references, error highlighting, dynamic outline, quick outline, etc..

Interoperability

Acceleo can be used on any EMF based model; it can be used on any eclipse from 3.4 (Ganymede) to the latest (Helios - 3.6 at the time of writing). Take note though that behavioral changes can be observed, these are described on the Eclipse wiki at http://wiki.eclipse.org/Acceleo#Behavioral changes between versions.

In terms of language interoperability, Acceleo is planned to natively be able to call for QVTo and ATL helpers; more can be added at will through the extension point org.eclipse.acceleo.common.libraries (see above).

Acceleo also allows clients to utilize Java methods from within module files. Complex computations that would be too convoluted in OCL can then be delegated to Java code without hassle.

Dependencies

http://www.eclipse.org/modeling/m2t/downloads/?project=acceleo

Eclipse EMF EMF (Core) MDT OCL

Standards

MOF Model to Text (M2T) Transformation Language

M2T JET

Model to Text Java Emitter Templates

Overview

http://www.eclipse.org/modeling/m2t/?project=jet

JET is typically used in the implementation of a "code generator". A code-generator is an important component of Model Driven Development (MDD). The goal of MDD is to describe a software system using abstract models (such as EMF/ECORE models or UML models), and then refine and transform these models into code. Although is possible to create abstract models, and manually transform them into code, the real power of MDD comes from automating this process. Such **transformations** accelerate the MDD process, and result in better code quality. The transformations can capture the "best practices" of experts, and can ensure that a project consistently employes these practices.

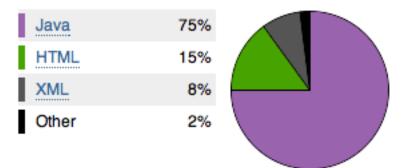
Licensing

https://www.ohloh.net/p/m2t-jet/analyses/latest

Eclipse Public License	691 files
Apache Software License	1 files

Platforms / Languages

https://www.ohloh.net/p/m2t-jet/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/m2t/?project=jet</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2t.jet</u> Wiki Page: http://wiki.eclipse.org/M2T-JET

Predictability

Release Train? Yes http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.m2t.jet</u> New & Noteworthy: N/A Release Notes: <u>http://www.eclipse.org/modeling/m2t/news/relnotes.php?project=jet&version=HEAD&types=</u>

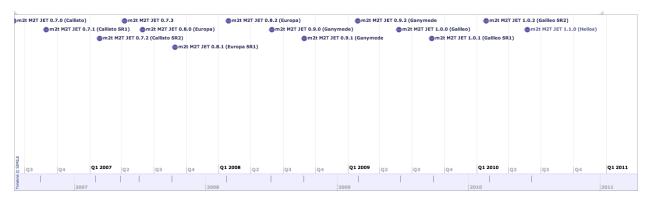
Release Timeline http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.m2t.jet

Releases

The Eclipse update site for this project is http://download.eclipse.org/modeling/m2t/updates/releases/.

M2T JET 1.1.0 (Helios):	2010-06-23	planned	۱
M2T JET 1.0.2 (Galileo SR2):	2010-02-26	completed	
M2T JET 1.0.1 (Galileo SR1):	2009-09-25	completed	
M2T JET 1.0.0 (Galileo):	2009-06-24	completed	۱
M2T JET 0.9.2 (Ganymede SR2):	2009-02-28	completed	

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2t.jet

Lead(s)

Paul Elder, IBM

Committers

Chris Aniszczyk, EclipseSource Nick Boldt, Red Hat Inc. Joel Cheuoua, individual Paul Elder, IBM

Mailing List: http://dev.eclipse.org/mhonarc/lists/m2t-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.m2t.jet

		by	login		by 3-	6-9 r	nonth	activi	ty	
	one	three	six	nine		one	three	six	nine	(9-6-3)
caniszczyk					pelder	16	16	7,629	15,337	
jcheuoua					caniszczyk					
nickb					jcheuoua					
pelder	16	16	7,629	15,337	nickb					

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.m2t.jet

Company		Active nmitters		ictive mitters	C							Approx. LOC per Commit
IBM	1	(100%)	0	(0%)	1	(33.33%)	100%	3	(100%)	16	(100%)	5
Total	1		2		3			3		16		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		IBM						92%	80%	90%	100%	100%
modeling.m2t.jet		RedHatInc.						6%	4%	9%		
		<u>individual</u>						1%	14%			

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		IBM						33%	33%	50%	100%	100%
modeling.m2t.jet		RedHatInc.						33%	33%	50%		
		individual						33%	33%			

User Community

N/A

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

JET is the primary template engine used in IBM software products.

Learning

Documentation: http://wiki.eclipse.org/M2T-JET

Training

N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.modeling.m2t</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=M2T&component=JET</u>

Consulting

N/A

Customizability

See Extensibility below.

Extensibility

API and extension points are provided for the following:

- Custom tag libraries (JET relies primarily on tag libraries for functionality)
- Custom XPath functions (JET navigates models primarily with XPath expressions)
- Custom loading of models
- Adapting models the the JET XPath information model

Scalability

Scalability tests have been done to up to 50,000 file writes.

Usability

JET is a template engine. There is not much in the way of UI.

Interoperability

JET depends on the Eclipse runtime and OSGi. Current releases with versions of Eclipse back to 3.2, versions of EMF back to 2.2 and Java 1.4 or later.

Dependencies

http://www.eclipse.org/modeling/m2t/downloads/?project=jet

Eclipse

EMF EMF (Core) MDT UML2 (optional)

Standards

None.

M2T Xpand

Model to Text Xpand

Overview

http://www.eclipse.org/modeling/m2t/?project=xpand

Xpand is language specialized on code generation based on EMF models. It supports the following main language features:

- Pluggable Type System
- Dynamic Dispatch of Functions
- AOP
- Rich Expressions (OCL-like but with Java-like syntax)

Xpand comes with two sublanguages. Xtend is a functional language used to define extensions for existing meta models. Xtend also supports model to model transformation with automatic identity preservation. Check is a validation languages similar to OCL.

Licensing

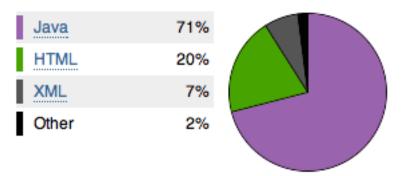
https://www.ohloh.net/p/xpand/analyses/latest

Eclipse Public License

1146 files

Platforms / Languages

https://www.ohloh.net/p/xpand/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/m2t/?project=xpand</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2t.xpand</u> Wiki Page: <u>http://wiki.eclipse.org/Xpand</u>

Predictability

Release Train? Yes http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.m2t.xpand</u> **New & Noteworthy:** <u>http://wiki.eclipse.org/Xpand_New_And_Noteworthy</u> **Release Notes:** http://www.eclipse.org/modeling/m2t/news/relnotes.php?project=xpand&version=0.7.x&types=

Release Timeline

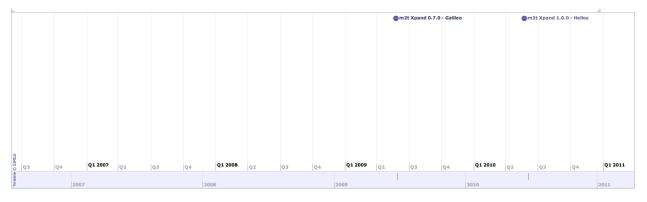
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.m2t.xpand

Releases

The Eclipse update site for this project is http://download.eclipse.org/modeling/m2t/xpand/updates/milestones/.

Xpand 1.0.0 - Helios: 2010-06-23 planned Xpand 0.7.0 - Galileo: 2009-06-24 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.m2t.xpand

Lead(s) Sven Efftinge, itemis AG

Committers

Andre Arnold, individual Heiko Behrens, items AG Achim Demelt, individual Sven Efftinge, itemis AG Moritz Eysholdt, itemis AG Peter Friese, itemis AG Arno Haase, individual Dennis Hübner, itemis AG Jan Koehnlein, itemis AG Bernd Kolb, SAP AG Patrick Schoenbach, itemis AG Karsten Thoms, itemis AG Markus Voelter, itemis AG Sebastian Zarnekow, itemis AG

Mailing List: http://dev.eclipse.org/mhonarc/lists/m2t-dev/maillist.html

Lines Changed By Committer

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http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.m2t.xpand

		by	login	
	one	three	six	nine
aarnold	174	174	1,639	2,326
ademelt			233	233
ahaase				
bkolb				36
dhubner		9	611	1,151
djockel	135	135	135	135
hbehrens		22	13,813	13,876
jkohnlein			27	28
kthoms		7,748	7,839	8,200
meysholdt			2	139
mvoelter				
pfriese	6	6	6	359
pschonbac				40,706
sefftinge	1,257	1,376	2,529	3,087
szarnekow		246	532	668

by 3-6-9 month activity one three six nine (9-6-3) aarnold 174 174 1,639 2,326 1,151 dhubner 9 611 135 djockel 135 135 135 22 13.813 13.876 hbehrens 7,748 kthoms 7,839 8,200 359 pfriese 6 6 6 2,529 3,087 sefftinge 1,257 1,376 szarnekow 246 532 668 ademelt 233 233 jkohnlein 27 28 2 139 meysholdt bkolb 36 40,706 pschonbac ahaase mvoelter

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.m2t.xpand

Company	Co	Active mmitters	Inactive Committers	Co				ommits 2010)			Approx. LOC per Commit
individual	1	(14.29%)	2 (28.57%)	3	(21.43%)	33.33%	98	(39.52%)	174	(8.29%)	2
itemisAG	6	(85.71%)	4 (57.14%)	10	(71.43%)	60%	150	(60.48%)	1,925	(91.71%)	13
Total	7		7	14			248		2,099		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		<u>SAPAG</u>							99%	1%	1%	
modeling.m2t.xpand		<u>individual</u>								5%	2%	8%
		itemisAG							1%	94%	96%	91%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		<u>SAPAG</u>							50%	14%	8%	
modeling.m2t.xpand		<u>individual</u>								14%	16%	14%
	$\mathbf{\nabla}$	itemisAG							50%	71%	75%	85%

User Community

Xpand is widely used for code generation and model to model transformation. It is the default M2T language of choice for any Xtext based DSL.

The newsgroup contains about 10 messages per day.

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

Xpand is integrated with Xtext as well as GMF (and hence any products based on those).

Learning

Documentation: http://help.eclipse.org/galileo/topic/org.eclipse.xpand.doc/help/ch01.html

Training

http://www.opcoach.com/en/Training_Courses.html http://www.itemis.com/itemis-ag/language=en/2642/education-and-coaching

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.modeling.m2t</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=M2T&component=Xpand</u>

Consulting

http://www.opcoach.com/en/Consulting.html http://www.itemis.com/itemis-ag/language=en/2621/portfolio

Customizability

Most of the internal concepts can be exchanged in order to make Xpand work well in different scenarios. *Xpand is by far the most customizable of the code generation technologies at Eclipse. The primary mechanism is the extensible type system.*

Extensibility

Xpand provides an extensible type system, which allows the integration of different type systems (e.g. XSD, UML2, EMF, JavaBeans). Also, the runtime can be run in any Java process.

Xpand is also very extensible in terms of working with models (adding to the standard library) which can be done through the Xtend language or even with Java. Adding these extensions that greatly simplify the Xpand templates is very straightforward and easy to do and does not require extensive Eclipse knowledge.

Scalability

Xpand is an interpreted language.

Xpand suffers greatly on large models because it is interpreted so some thought has to be put into the architecture and organization of the code generator. There are efforts to have an intermediate language that both Xpand and Xtend are compiled into in order to improve the scalability (performance and resource usage) and ultimately there are efforts to compile Xpand to Java (much like JET) in order to get even better performance. That being said, they do have profiling capabilities that allow you to identify the bottlenecks in your generator.

Usability

Xpand is shipped with an Eclipse editor supporting syntax coloring, code completion, navigation, static analyses, outline, etc..

The biggest downfall of Xpand is its lack of a debugger and a very weak debugger for Xtend. Through the profiling capabilities, it is possible to capture the call graph of the generator execution and debug that way.

Interoperability

Xpand provides an extensible type system, which allows the integration of different type systems (e.g. XSD, UML2, EMF, JavaBeans). Also, the runtime can be run in any Java process.

Dependencies

http://www.eclipse.org/modeling/m2t/downloads/?project=xpand

Eclipse EMF EMF (Core) EMFT MWE MDT UML2 Orbit

Standards

None.

MDT BPMN2

Model Development Tools Business Process Model and Notation 2.x

Overview

http://www.eclipse.org/modeling/mdt/?project=bpmn2

BPMN2 is an open source component of the Model Development Tools (MDT) subproject to provide a metamodel implementation based on the forthcoming <u>Business Process Model and Notation (BPMN)</u> <u>2.0</u> OMG specification.

The objectives of the BPMN2 component are to provide

- an open source "reference" implementation of the BPMN 2.0 specification
- an EMF-based foundation on which business process modeling tools can be built
- · a basis for integrating and interchanging artifacts between business process modeling tools

466 files

- a forum for engaging the community in validation of the BPMN 2.0 specification
- · an opportunity for increased collaboration between Eclipse and the OMG

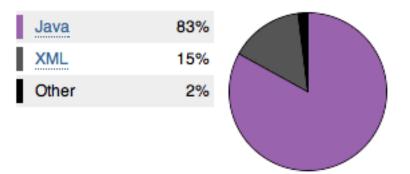
Licensing

https://www.ohloh.net/p/mdt-bpmn2/analyses/latest

Eclipse Public License

Platforms / Languages

https://www.ohloh.net/p/mdt-bpmn2/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/mdt/?project=bpmn2</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.bpmn2</u> Wiki Page: <u>http://wiki.eclipse.org/MDT/BPMN2</u>

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.mdt.bpmn2</u> New & Noteworthy: <u>http://wiki.eclipse.org/MDT_Helios_New_and_Noteworthy</u> Release Notes: N/A

Release Timeline

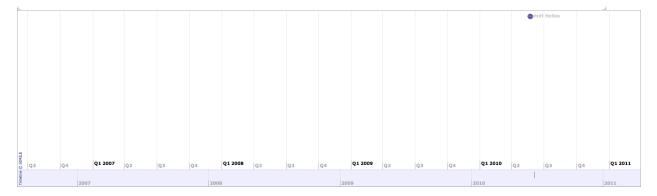
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.mdt.bpmn2



The Eclipse update site for this project is http://download.eclipse.org/modeling/mdt/updates/releases/.

Helios: 2010-06-23 tentative 💽 属

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.bpmn2

Lead(s) Kenn Hussey, individual

Committers Kenn Hussey, individual Antoine Toulme, Intalio Inc.

Mailing List: http://dev.eclipse.org/mhonarc/lists/mdt-bpmn2.dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.mdt.bpmn2

		by lo	-		by 3-6				-		
	one	three	six	nine		one	three	six	nine	(9-6-3)	
atoulme		4	4	4	atoulme		4	4	4		
khussey					khussey						

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.mdt.bpmn2

		Active		ctive				Com	nmits	Lir		Approx. LOC
Company	Co	mmitters	Com	mitters	Co	mmitters	Active	(20)10)		(2010)	per Commit
IntalioInc.	1	(100%)	0	(0%)	1	(100%)	100%	1,596	(100%)	4	(100%)	0
Total	1		0		1			1,596		4		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
modeling.mdt.bpmn2	IntalioInc.										100%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
modeling.mdt.bpmn2	IntalioInc.										100%

User Community

TBD

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

The adopter community inside Eclipse ranges from the BPMN Modeler and the JWT project to the new eBPM project. Outside Eclipse, vendors interested in an open source implementation of the BPMN 2.0 metamodel will be sure to take notice once it is available.

Learning

Documentation: http://wiki.eclipse.org/MDT/BPMN2

Training

N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.modeling.mdt</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=MDT&component=BPMN2</u>

Consulting

N/A

Customizability

No particular customization is support, although it would be possible to take the Ecore model and tailor it for other purposes.

Extensibility

The project is extensible via the EMF APIs.

Scalability

N/A

Usability

N/A

Interoperability

Interoperability should be possible based on the BPMN 2.0 metamodel, whereas no particular effort will be made to be interoperable with previous versions of the specification (out of scope).

Dependencies

Eclipse EMF EMF (Core)

Standards
Business Process Model and Notation (BPMN)

MDT MST

Model Development Tools Metamodel Specification Tools

Overview

http://www.eclipse.org/modeling/mdt/?project=mst

MST is an open source sub-project of the Model Development Tools (MDT) project to provide tooling for the development of MOFTM-compliant metamodels and specifications based on them.

The goals of the MST project are to

- leverage the CMOF (de)serialization support that was introduced in the UML2 project as part of the Ganymede release
- customize and/or extend the existing (or forthcoming) UMLTM editors (primarily for class and package/profile diagrams) to expose CMOF concepts which are missing in UML (like identifiers, namespace URIs, and XMITM tags)
- provide a mechanism for generating a specification document (or at least a decent boiler plate for one) directly from a metamodel using BIRT
- automate the mapping between a metamodel and its profile representation (if there is one)
- make use of the Eclipse Process Framework (EPF) to document and coordinate the specification development process
- provide a proof of concept for changes and/or extensions to EMF and/or UML2 to better support richer and evolving metamodels, as per the MOF Support for Semantic Structures RFP

Licensing

(Eclipse Public License)

Platforms / Languages

(Java)

Home Page: <u>http://www.eclipse.org/modeling/mdt/?project=mst</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.mst</u> Wiki Page: <u>http://wiki.eclipse.org/MDT/MST</u>

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.mdt.mst</u> New & Noteworthy: <u>http://wiki.eclipse.org/MDT_Helios_New_and_Noteworthy</u> Release Notes: N/A

Release Timeline

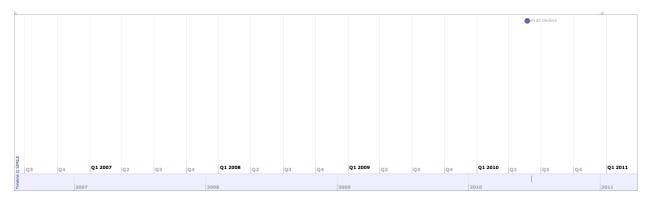
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.mdt.mst



The Eclipse update site for this project is http://download.eclipse.org/modeling/mdt/updates/releases/.

Helios: 2010-06-23 tentative 🛒 📃

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.mst

Lead(s) Kenn Hussey, individual

Committers

Chris Armstrong Tom Digre Kenn Hussey, individual

Mailing List: http://dev.eclipse.org/mhonarc/lists/mdt-mst.dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.mdt.mst

N/A

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.mdt.mst

N/A

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

Percentage of Active Committers by Company by Year http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

User Community

N/A

Adopter Community

N/A

Learning

Documentation: http://wiki.eclipse.org/MDT/MST

Training N/A

Support

Forum: http://www.eclipse.org/forums/eclipse.mst Bugs: https://bugs.eclipse.org/bugs/buglist.cgi?product=MDT&component=MST

Consulting N/A

Customizability

N/A

Extensibility

N/A

Scalability

N/A

Usability

N/A

Interoperability

MST will support interoperability based on its conformance to various OMG specifications (see below), in particular MOF and XMI.

Dependencies

Eclipse EMF EMF (Core) MDT Papyrus MDT UML2

Standards

Meta Object Facility (MOF) MOF Support for Semantic Structures XML Metadata Interchange (XMI)

MDT OCL

Model Development Tools Object Constraint Language

Overview

http://www.eclipse.org/modeling/mdt/?project=ocl

OCL is an implementation of the Object Constraint Language (OCL) OMG standard for EMF-based models.

The OCL component provides the following capabilities to support OCL integration:

- Defines APIs for parsing and evaluating OCL constraints and queries on EMF models. · Defines an Ecore implementation of the OCL abstract syntax model, including support for
- serialization of parsed OCL expressions.
- Provides a Visitor API for analyzing/transforming the AST model of OCL expressions.
- Provides an extensibility API for clients to customize the parsing and evaluation environments used by the parser.

Licensing

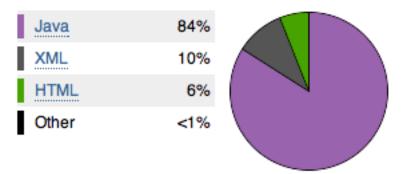
http://www.ohloh.net/p/mdt_ocl/analyses/latest

Eclipse Public License

999 files

Platforms / Languages

http://www.ohloh.net/p/mdt ocl/analyses/latest



Home Page: http://www.eclipse.org/modeling/mdt/?project=ocl Portal Page: http://www.eclipse.org/projects/project summary.php?projectid=modeling.mdt.ocl Wiki Page: http://wiki.eclipse.org/index.php/MDT/OCL

Predictability

Release Train? Yes

http://wiki.eclipse.org/Helios/Participating Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.mdt.ocl</u> New & Noteworthy: <u>http://wiki.eclipse.org/MDT_Helios_New_and_Noteworthy</u> Release Notes: N/A

Release Timeline

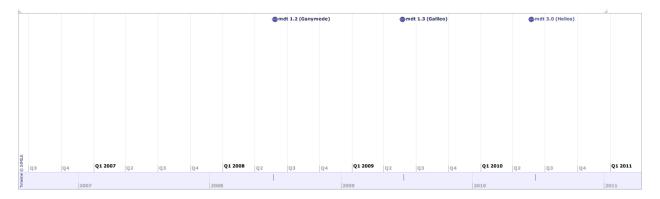
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.mdt.ocl

Releases

The Eclipse update site for this project is http://download.eclipse.org/modeling/mdt/ocl/3_0/updates/milestones/.

3.0 (Helios):	2010-06-23	planned	٢	
1.3 (Galileo):	2009-06-23	completed	0	
1.2 (Ganymede):	2008-06-27	completed		

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.ocl

Lead(s)

Aleksandr Igdalov, Borland Software

Committers

Laurent Goubet, OBEO Aleksandr Igdalov, Borland Software Adolfo Sachez-Barbudo Herrera, individual Ed Willink, Thales

Mailing List: http://dev.eclipse.org/mhonarc/lists/mdt-ocl.dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.mdt.ocl

		by l	ogin		b	y 3-6-9 i	nonth ac	tivity		
	one	three	six	nine		one	three	six	nine	(9-6-3)
aigdalov	104	1,275	3,119	3,546	aigdalov	104	1,275	3,119	3,546	
asanchez	12,630	17,882	24,500	24,500	asanchez	12,630	17,882	24,500	24,500	
cdamus					ewillink	124,393	220,997	302,916	308,403	
emegee					lgoubet			40	40	
ewillink	124,393	220,997	302,916	308,403	*nickb					
lgoubet			40	40	cdamus					
*nickb					emegee					
vramaswamy					vramaswamy					

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.mdt.ocl

Company	Co	Active ommitters	-	nactive mmitters	Co		Percent Active		mmits 2010)		of Code)10)	Approx. LOC per Commit
BorlandSoftwareCorp.	1	(33.33%)	0	(0%)	1	(12.5%)	100%	28	(0.67%)	112	(0.06%)	4
individual	1	(33.33%)	3	(60%)	4	(50%)	25%	108	(2.58%)	12,701	(6.93%)	118
Thales	1	(33.33%)	0	(0%)	1	(12.5%)	100%	4,058	(96.76%)	170,540	(93.01%)	42
Total	3		5		8			4,194		183,353		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		BorlandSoftwareCorp.									1%	1%
		<u>OBEO</u>									1%	
modeling.mdt.ocl		RedHatInc.					34%	3%	1%	1%		
		Thales									78%	93%
		<u>individual</u>					65%	96%	99%	99%	19%	6%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
modeling.mdt.ocl	BorlandSoftwareCorp.									20%	33%
	OBEO									20%	
	RedHatInc.					33%	25%	50%	50%		
	Thales									20%	33%
	individual					66%	75%	50%	50%	40%	33%

User Community

MDT OCL is widely used by the modeling community, in particular in downstream projects at Eclipse such as M2M QVTo, M2M QVTr, M2T Acceleo, GMF and a range of commercial projects such as Borland Together for Eclipse.

Public communication with users is done in the forum: http://www.eclipse.org/forums/index.php?t=thread&frm_id=26

Metrics

i. Downloads. Number of downloads over time - N/A

ii. Involvement. Number of bugs opened over time (and, if possible, by whom). Number of newsgroup/forum posts over time (and, if possible, by whom).

Year	Opened bugs	Newsgroup posts
2005	18	N/A
2006	106	N/A
2007	125	957
2008	105	682
2009	135	575
2010 (1 March)	26	24

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

MDT OCL is widely used by the modeling community, in particular in downstream projects at Eclipse such as M2M QVTo, M2M QVTr, M2T Acceleo, GMF and a range of commercial projects such as Borland Together for Eclipse.

Metrics

i. Internal. Number (or percentage) of committers/contributors that have reused the framework/tool.

This number is hard to estimate. I know about 15 committers/contributors who have reused or contributed to MDT OCL.

ii. External. Number of external adopters (if/where possible to determine).

This number is even harder to estimate. I know about 50 IT professionals who have used MDT OCL in practice.

Learning

Documentation: http://wiki.eclipse.org/MDT/OCL

Training http://eclipsegang.com/

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.modeling.mdt.ocl</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=MDT&component=OCL</u>

Consulting

http://eclipsegang.com/

Customizability

a. <u>Tools</u>. The existing OCL console for evaluation of OCL expression can be found in the OCL examples. It can serve as a base for more complex editors. MDT OCL provides useful syntax helper support which can be used in third-party editors.

b. <u>Processes</u>. OCL has different levels of customization: customization of the compilation and evaluation environments such as defining additional user-defined variables and operations and other additions to the standard library.

c. <u>Languages</u>. MDT OCL is aimed to be an implementation of an OMG language standard. However, for some reasons it might be useful to perform some deviations from the language specification. MDT OCL allows them through a flexible mechanism of parsing and evaluation options.

d. <u>Methods</u>. Although the choice of analysis, design, testing and other methods is by default pre-ordained by the implementations the individual projects and users have the possibility to override many fragments of the code and customize the project according to their needs.

Extensibility

a. <u>Tools</u>. OCL parsing/evaluation engine can be integrated with arbitrary text editors, meanwhile, the work on specialized OCL editors is now in progress.

b. <u>Processes</u>. OCL is a model query language which is not allowed to change models. However, its QVT extension allows to perform model creation and modifications. This is a completely different scenario beyond the scope of pure OCL which proves that OCL applicability is highly extensible. Another example is the ability to plug-in different types of models such as EMF or UML2. Users are welcome to implement their own metamodel framework, e.g. EMOF, and plug it into OCL.

c. <u>Languages</u>. Although MDT OCL is aimed to be an implementation of an OMG language standard, it allows grammar extensibility and conceptual changes of compilation/evaluation environment. Operational QVT based on OCL is a good example of a project which reuses, extends and overrides OCL behaviour in many aspects.

d. <u>Methods</u>. Although the choice of analysis, design, testing and other methods is by default pre-ordained by the implementations, individual projects and users have the possibility to extend the framework and perform the activity by themselves.

Scalability

Since currently MDT OCL is mostly an expression-evaluation engine team support is not required here. Upon the development of OCL editors, the standard means of scalability such as Eclipse team support will be used.

Usability

The current state of MDT OCL implies significant knowledge of underlying technologies and standards such as EMF, MOF, OCL standard and UML2 (optional). To minimize the cognitive load on users the committers provide examples, tutorials, wikis and respond in newsgroups.

Interoperability

MDT OCL is highly integrated with modeling standards such as EMF and UML2. Proprietary approaches such as hardcoded standard library are being eliminated. In particular the standard library is being upgraded to become fully EMF-based and model-driven.

Dependencies

http://www.eclipse.org/modeling/mdt/downloads/?project=ocl

Eclipse EMF EMF (Core) MDT UML2 Orbit

Standards Object Constraint Language

MDT Papyrus

Model Development Tools Papyrus

Overview

http://www.eclipse.org/modeling/mdt/?project=papyrus

Papyrus is a graphical editing tool that provides UML2 editors and environment to create and combine any graphical editor (domain-specific modeling language) defined from Ecore metamodel or from UML2 profile. It is Eclipse-based and it uses the Eclipse Graphical Modeling Framework.

The initial version of the tool, which is at release 1.12, is in maintenance mode but is still being used by numerous industrial organizations for their model-based development, including notably Airbus, Thales, ST Microelectronics, and Continental. This version is being replaced by new Papyrus component of the official Eclipse MDT project, and which utilizes other components of the project, such as GEF, GMF, UML2, etc. The initial public release of this version is planned for July, 2010. (NB: Henceforth, we shall use "Papyrus" to refer to the new version and "Papyrus 1" for the older version.)

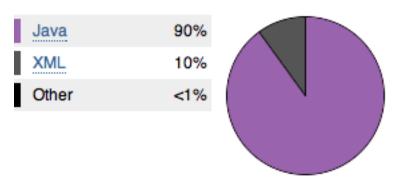
Licensing

https://www.ohloh.net/p/mdt-papyrus/analyses/latest

Eclipse Public License	5990 files
GNU Lesser General Public License 3	102 files

Platforms / Languages

https://www.ohloh.net/p/mdt-papyrus/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/mdt/?project=papyrus</u> (<u>http://papyrusuml.org</u> for Papyrus 1) Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.papyrus</u> Wiki Page: <u>http://wiki.eclipse.org/MDT/Papyrus</u>

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects

http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Note that the project plans to join the Eclipse train, immediately following the new Papyrus version 0.7 release in July 2010. In the meantime, development is tracking the Helios schedule, although not it is not formally registered as part of the Helios release.

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.mdt.papyrus</u> New & Noteworthy: <u>http://wiki.eclipse.org/MDT_Helios_New_and_Noteworthy</u> Release Notes: N/A

Release Timeline

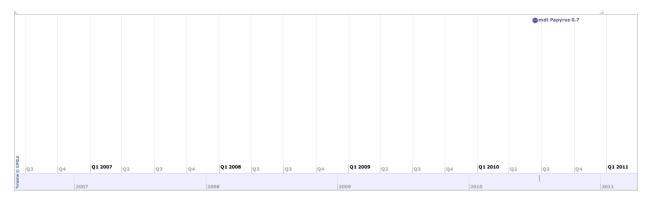
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.mdt.papyrus



No Eclipse update site has been listed.

Papyrus 0.7: 2010-07-14 planned

Here is the Project Release Timeline.



Release milestones occurring at roughly 6 week intervals and follow the Platform milestone releases by approximately 1 week; that is, until the final 3.6 release of the Platform, upon which MDT Papyrus and other projects will release simultaneously. It is anticipated that MDT Papyrus will synchronize its milestones with the Helios milestone schedule.

M1 08/17/2009 M2 09/28/2009 M3 11/09/2009 12/14/2009 M4 M5 02/01/2010 M6 03/15/2010 (API freeze) 05/03/2010 (Feature Freeze) M7 RC1 05/17/2010 **RC2** 05/24/2010

RC305/31/2010RC406/07/2010RC506/14/2010Helios 06/23/2010

Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.papyrus

Lead(s)

Sebastien Gerard, CEA LIST

Committers

Jerome Benoit, OBEO Francisco Javier Cano, indiviudal David Carlson, indiviudal Cedric Dumoulin, indiviudal Raphael Faudou, indiviudal Sebastien Gerard, CEA LIST Etienne Juliot, OBEO Thibault Landre, indiviudal Gabriel Merin Cubero, indiviudal Chokri Mraidha, CEA LIST Emilien Perico, indiviudal Remi Schnekenburger, CEA LIST David Servat, CEA LIST Yann Tanguy, CEA LIST Patrick Tessier, CEA LIST

Mailing List: http://dev.eclipse.org/mhonarc/lists/mdt-papyrus.dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.mdt.papyrus

	by login							
	one	three	six	nine				
cdumoulin	69	470	538	938				
cmraidha								
dcarlson								
dservat	174	174	174	174				
ejuliot								
eperico	567	1,559	1,648	2,780				
fcano		7	94	462				
gmerincube								
jbenois				1,404				
*jmcconnell								
ptessier	654	1,842	4,163	5,535				
rfaudou			6	6				
rschnekenbu	157	5,758	6,034	8,190				
sgerard								
tlandre	428	801	3,536	5,075				
ytanguy	1,510	4,695	5,816	6,758				

by 3-6-9 month activity								
	one	three	six	nine	(9-6-3)			
cdumoulin	69	470	538	938				
dservat	174	174	174	174				
eperico	567	1,559	1,648	2,780				
fcano		7	94	462				
ptessier	654	1,842	4,163	5,535				
rschnekenbu	157	5,758	6,034	8,190				
tlandre	428	801	3,536	5,075				
ytanguy	1,510	4,695	5,816	6,758				
rfaudou			6	6				
jbenois				1,404				
cmraidha								
dcarlson								
ejuliot								
gmerincube								
*jmcconnell								
sgerard								

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.mdt.papyrus

Company	Co	Active mmitters	-	nactive mmitters	Co				nmits 010)			Approx. LOC per Commit
CEALIST	4	(57.14%)	2	(28.57%)	6	(42.86%)	66.67%	3,475	(70.5%)	3,475	(70.5%)	1
individual	3	(42.86%)	3	(42.86%)	6	(42.86%)	50%	1,454	(29.5%)	1,454	(29.5%)	1
Total	7		7		14			4,929		4,929		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		CEALIST									67%	70%
modeling mdt pepurus		IntalioInc.									1%	
modening.mdt.papyrus		<u>OBEO</u>									11%	
		<u>individual</u>									21%	29%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010 CEALIST				2003	2004	2005	2006	2007	2008	2009	2010
		<u>CEALIST</u>									38%	57%
modeling.mdt.papyrus		IntalioInc.									7%	
modeling.mdt.papyrus		<u>OBEO</u>									7%	
		individual									46%	42%

User Community

Papyrus 1, along with its 4 standard profiles (MARTE, SysML, CCM, and EAST-ADL), is currently used by several large industrial enterprises (e.g., Continental, Airbus Industrie, ST Microelectronics, Thales) as well as a number of European Community projects (e.g., EDONA, Sophia, ATESST 2, CESAR, e-DIANA, INTERESTED, VERDE, PROTEUS, OPEES, Lambda, RT-Describe, IMOFIS, SIRSEC, Nano2012/SHARE, MAENAD, IDM++, and others).

To date, there have been around 480,000 downloads of Papyrus 1. The upcoming new Papyrus version will be an integral components of the TOPCASED tools suite for safety-critical system design. It will replace the native UML 2 tool. The team that built the TOPCASED UML 2 tool as well as the team from the <u>Valencian Regional Ministry of Infrastructure and Transport</u> responsible for the MOSKitt UML tool have been merged into the New Papyrus development team. Papyrus will be used to provide the public implementation of the EAST-ADL 2 modeler for automotive domain supporter by the consortium built from the ATESST, ATESST 2 and MAENAD projects.

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

As noted, the new Papyrus will be incorporated as a primary model authoring tool within the TOPCASED tools suite and OPEES.

Learning

Documentation: http://wiki.eclipse.org/MDT/Papyrus

Training

On-line tutorials available on documentation sites.

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.papyrus</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=MDT&component=Papyrus</u>

Consulting

N/A

Customizability

The new Papyrus has an extensive customization capability on top of the customization features available from its base components (Eclipse platform EMF, GMF, etc.). The Papyrus specific customizations include: choice of text editors for model commenting, layout tools and algorithms, tool palette content and look, domain-specific graphical editors, methodology-specific design templates. Furthermore, the architecture was designed to allow easy replacement of implementation components and services, such as GMF.

Extensibility

A key capability of Papyrus is the ability to define domain-specific profiles, thereby extending and specializing (and, where desired, restricting) the capabilities of standard UML. Once defined, Papyrus can then be customized and used as a custom editor for the newly-defined language, offering all the capabilities that it normally provides for standard UML.

Furthermore, The new Papyrus is designed to allow the addition of new UML metamodels and model libraries. It also allows extension of its basic tool capabilities through new user-specific menu items and corresponding functionality. Finally, it includes an "event" port, which can be used by other tools to detect and react to changes in Papyrus models.

Scalability

At present, preliminary stress testing has been performed on the new Papyrus by two commercial users with encouraging results. However, there has, as yet, been no systematic study of this aspect, although preliminary studies are being conducted to exploit Eclipse-based technologies such as EMF CDO to deal with such issues, if necessary.

Usability

Papyrus fits within the user paradigm of Eclipse. Its numerous customization and extension capabilities listed above are intended to facilitate usability, by allowing the tool to be adjusted to a particular domain and mode of use.

Interoperability

Papyrus supports standard XMI, allowing interchange with other tools supporting the same standard. In addition, as noted above, it allows coupling to other tools through its event port capability. In the past, Papyrus 1 has been successfully integrated with a number external tools, most notably tools supporting formal schedulability analysis.

Dependencies

As noted earlier, the new Papyrus has been architected to allow relatively easy replacement of many of its internal components; for example, replacing a component like GMF, by a different but semantically equivalent component.

Eclipse EMF EMF (Core) EMF Query EMF Transaction EMF Validation GEF GMF (runtime) M2M QVTo MDT OCL MDT UML2

Optional dependencies:

Orbit (ANTLR runtime, for Property/Port/Parameters direct editors) EPF (Eclipse Process Framework sub-feature; Ulto edit comments using a subset of HTML – only on Windows 32 platforms) GMF (tooling, for GMF-based diagram editors, developers only)

Standards

<u>Unified Modeling Language</u> <u>OMG Systems Modeling Language (SysML)</u> <u>Object Constraint Language</u> OMG MARTE profile OMG CCM and LwCCM profiles (Papyrus 1) EAST-ADL profile (Papyrus 1)

MDT UML2

Model Development Tools Unified Modeling Language 2.x

Overview

http://www.eclipse.org/modeling/mdt/?project=uml2

UML2 is an EMF-based implementation of the <u>Unified Modeling Language (UMLTM) 2.x</u> OMG metamodel for the Eclipse platform.

The objectives of the UML2 component are to provide

- a useable implementation of the UML metamodel to support the development of modeling tools
- · a common XMI schema to facilitate interchange of semantic models
- test cases as a means of validating the specification
- · validation rules as a means of defining and enforcing levels of compliance

Licensing

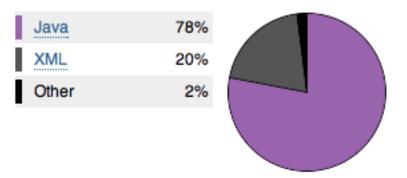
https://www.ohloh.net/p/mdt-uml2/analyses/latest

Eclipse Public License

2720 files

Platforms / Languages

https://www.ohloh.net/p/mdt-uml2/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/mdt/?project=uml2</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.uml2</u> Wiki Page: <u>http://wiki.eclipse.org/MDT/UML2</u>

Predictability

The UML2 project has met all deadlines for all releases.

Release Train? Yes http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.mdt.uml2</u> New & Noteworthy: <u>http://wiki.eclipse.org/MDT_Helios_New_and_Noteworthy</u> Release Notes: <u>http://www.eclipse.org/modeling/mdt/news/relnotes.php?project=uml2&version=HEAD</u>

Release Timeline

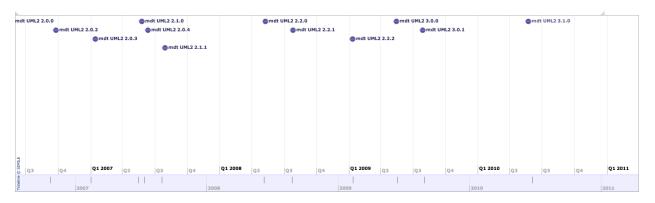
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.mdt.uml2

Releases

The Eclipse update site for this project is http://download.eclipse.org/modeling/mdt/updates/releases/.

UML2 3.1.0: 2010-06-23 planned UML2 3.0.1: 2009-08-28 completed UML2 3.0.0: 2009-06-15 completed UML2 2.2.2: 2009-02-10 completed UML2 2.2.1: 2008-08-26 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.uml2

Lead(s) James Bruck, IBM

Committers James Bruck, IBM Kenn Hussey, individual

Mailing List: http://dev.eclipse.org/mhonarc/lists/mdt-uml2.dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.mdt.uml2

		by	y login								
	one	three	six	nine		or	ne three	six	nine	(9-6-3)	
jbruck		3,802	3,842	18,848	jbruc	ĸ	3,802	2 3,842	18,848		G
khussey	7	232,948	251,638	251,668	khuss	ey	232,948	8 251,638	251,668		ri
* nickb					* nick	Ð					by slo de ni ac

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.mdt.uml2

	Active	Inactive	Total	Percent	Commits	Lines of Code	Approx. LOC
Company	Committers	Committers	Committers	Active	(2010)	(2010)	per Commit
Total	0	3	3		0	0	

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		IBM							7%	40%	7%	
modeling.mdt.uml2		RedHatInc.					1%	1%	1%	1%		
	$\mathbf{\nabla}$	individual				100%	99%	99%	91%	58%	92%	

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

		2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
			IBM							33%	33%	50%	
n	odeling.mdt.uml2		RedHatInc.					50%	50%	33%	33%		
		$\mathbf{\nabla}$	individual				100%	50%	50%	33%	33%	50%	

User Community Open bugs .

Status

		NEW	ASSIGNED	REOPENED	RESOLVED	VERIFIED	CLOSED	Total
	blocker				<u>3</u>	3	<u>4</u>	<u>10</u>
	critical				<u>6</u>	<u>6</u>	3	<u>15</u>
	major	9			9	<u>42</u>	<u>10</u>	<u>70</u>
Severity	normal	<u>30</u>		2	<u>62</u>	<u>245</u>	<u>60</u>	<u>399</u>
	minor	<u>6</u>			<u>3</u>	<u>8</u>	<u>6</u>	<u>23</u>
	trivial	1				3	1	<u>5</u>
	enhancement	21	4	<u>1</u>	9	<u>79</u>	<u>10</u>	<u>124</u>
	Total	<u>67</u>	4	<u>3</u>	<u>92</u>	<u>386</u>	<u>94</u>	<u>646</u>

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

http://www.modeliosoft.com/ http://wiki.eclipse.org/MDT-UML2-Tool-Compatibility

List of IBM products that have adopted UML2:

- IBM Data Studio 1.1
- ③ WebSphere Classic Federation Server for z/OS v9.5
- WebSphere Classic Replication Server for z/OS v9.5
- ⑦ Optim Data Privacy Solution 1.2
- ⑦ Rational Application Developer for Websphere Software 7.0.0.8
- ⑦ Rational Software Architect
- ② Rational Method Composer 7.2
- ③ IBM Rational Developer for System z 7.5
- ⑦ Rational Software Modeler 7.5
- ⑦ Rational Data Architect 7.5
- ⑦ Rational Application Developer for WebSphere Software 7.5.1
- ⑦ Rational Software Architect for WebSphere Software 7.5.1
- IBM InfoSphere Warehouse for DB2 for z/OS 9.5.2
- ③ Warehouse Tooling 2.2
- IBM InfoSphere Classic Federation Server for z/OS V10.1
- ⑦ Rational Software Architect Standard Edition 7.5.2
- ⑦ InfoSphere Data Architect 7.5.2.1
- WebSphere Service Registry and Repository v6.3
- IBM Rational Developer for System z 7.6
- InfoSphere Data Architect 7.5.2
- ⑦ Rational Software Architect Standard Edition 7.5.3
- ⑦ Rational Software Architect RealTime Edition 7.5.3
- ⑦ Cognos Diagnostic Tools 1
- ⑦ Rational EGL Community Edition 1.0
- ② Rational Software Architect for WebSphere Software 7.5.4
- IBM Data Discovery and Query Builder 3.2

⑦ Resources Dependencies Analyzer 2.x.x

Learning

Documentation: http://wiki.eclipse.org/MDT/UML2

Training

http://www.obeo.fr/pages/training/en

Support

Forum: http://www.eclipse.org/forums/eclipse.modeling.mdt.uml2 Bugs: https://bugs.eclipse.org/bugs/buglist.cgi?product=MDT&component=UML2

Consulting http://www.obeo.fr/pages/mda-and-productivity/en http://www.modeliosoft.com/

Customizability

- 1. Tools
 - a. Users may choose which aspects of UML2 API to make use of.
- 2. Processes
 - a. Customizations include the ability to create/apply profiles.
 - Ability to customize where profiles reside: https://bugs.eclipse.org/bugs/show_bug.cgi?id=267688
- 3. Languages.
 - **a.** Language packs provide translations for various languages including German, Japanese, Russian, Dutch etc.: <u>http://www.eclipse.org/modeling/mdt/downloads/?project=uml2</u>

Extensibility

- 1. Tools
 - a. Automatic migration between various versions of UML is automatically supported through the sample editor and is automatically triggered through resource handlers.
- 2. Processes
 - a. Users have ability to extend code generation facilities by customizing existing templates.

Scalability

Models produced by UML2 project can be fragmented to support multi user use.

Usability

The UML2 project provides a sample editor that:

- Allow users to quickly create models.
- Allows users to convert models to .xmi or .cmof standards.
- Provides a means to create and apply profiles
- Provides a means to merge models.

UML2 makes use of the code generation facilities of EMF to allow users to generate code.

- Genmodel extensions are provided to enhance default code generation with notions introduced by UML2.
- In addition, the code generation facilities provide a means to integrate with OCL project by generating code to evaluate OCL expressions.

Users can decide to use as little or as much of the UML metamodel as desired.

Language packs provide translations for various languages including German, Japanese, Russian, Dutch etc.: http://www.eclipse.org/modeling/mdt/downloads/?project=uml2

- UML2 conforms to Eclipse User Interface Guidelines
- Eclipse platform standard i18n support used where applicable/possible; stand-alone deployment uses equivalent J2SE APIs
- ICU4J is used but optional; stand-alone deployments delegate to corresponding J2SE 5.0 APIs when ICU not available
- Language packs are provideas part of an Eclipse Translation Project
- Eclipse platform APIs used to provide accessible UI

Interoperability

UML2 project is considered the de-facto standard implementation of the UML metamodel. XMI interchange work makes indirect use of UML2 <u>http://www.omgwiki.org/model-interchange/doku.php?id=start</u>.

Normative representations of the UML metamodel are produced by a combination of Rational Software Architect which is based on opensource UML2, in addition to opensource UML2: <u>http://www.omgwiki.org/uml2-rtf/doku.php?id=start</u>.

Dependencies

http://www.eclipse.org/modeling/mdt/downloads/?project=uml2

Eclipse EMF EMF (Core)

Standards

<u>Meta Object Facility (MOF)</u> <u>Unified Modeling Language</u> (UML 2.0, 2.1.1, 2.1.2, 2.2) <u>XML Metadata Interchange (XMI)</u>

MDT UML2 Tools

Model Development Tools Unified Modeling Language 2.x Tools

Overview

http://www.eclipse.org/modeling/mdt/?project=uml2tools

UML2 Tools is a set of GMF-based editors for viewing and editing UML models; it is focused on (eventual) automatic generation of editors for all UML diagram types.

Licensing

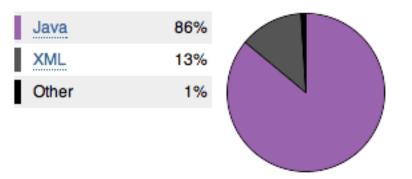
https://www.ohloh.net/p/mdt-uml2tools/analyses/latest

Eclipse Public License

262 files

Platforms / Languages

https://www.ohloh.net/p/mdt-uml2tools/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/mdt/?project=uml2tools</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.uml2-tools</u> Wiki Page: <u>http://wiki.eclipse.org/MDT-UML2Tools</u>

Predictability

Release Train? No http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: N/A New & Noteworthy: <u>http://wiki.eclipse.org/MDT_Helios_New_and_Noteworthy</u> Release Notes: N/A

Release Timeline

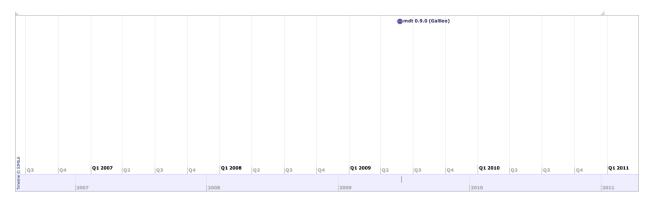
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.mdt.uml2-tools



No Eclipse update site has been listed.

0.9.0 (Galileo): 2009-06-24 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/modeling/mdt/?project=uml2tools

Lead(s)

Michael Golubev, individual

Committers

Tatiana Fesenko, individual Michael Golubev, individual Sergey Gribovsky, Borland Software

Mailing List: http://dev.eclipse.org/mhonarc/lists/mdt-uml2tools.dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.mdt.uml2-tools

N/A

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.mdt.uml2-tools

N/A

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

2010

2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

2010 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010

N/A

User Community

N/A

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

N/A

Learning

Documentation: http://wiki.eclipse.org/MDT-UML2Tools

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.modeling.mdt.uml2tools</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=MDT&component=UML2Tools</u>

Consulting

N/A

Customizability

As an implementation of the very specific standard, UML2 Tools neither targets any specific process, tool or a language, nor provides any customizability in those areas.

Extensibility

UML2 Tools allows to add new capabilities via rich set of GMF extension points. As a GMF-based editor, it allows such tools to obtain complete information about the state of the editor via GMF public API.

At this time, no known extenders of UML2 Tools exist.

UML2 Tools supports the definition, application and exchange of UML2 profiles, allowing to define custom language extensions using standard means defined in UML2.

There are known usages of the UML2 Tools in the support of the <u>UPDM</u> profile (Unified Profile for DoDAF/MODAF) profile, and in the projects supporting the National Information Exchange Model (<u>NIEM</u>).

Scalability

There are known technical problems with processing of the diagrams with 1000+ elements. Usability issues limits the scope even further, to a few dozens element per single practically usable diagram at a maximum.

However, with semi-synchronized structural diagrams, UML2 Tools allows user to operate on the small subset (view) of the very big semantic models. Normally, each diagram represents the contents of a single model package, but user may limit the set of considered elements to arbitrary set of elements.

Every element may present on arbitrary number of diagrams at the same time, which allows team of developers/architects to process the intersecting pieces of the model independently.

Usability

No advanced usability concepts have been implemented for UML2 Tools so far.

Interoperability

UML2 Tools does NOT support interoperability with external toolsets at the diagram level. In particular, any visual information (colors, positions, styles, etc) can NOT be imported nor exported from/to the diagram editor.

However, UML2 Tools supports OMG XMI as a de facto standard of the semantic models exchange, allowing to import/export semantic models from/to external diagram editors.

Dependencies

http://www.eclipse.org/modeling/mdt/downloads/?project=uml2

Eclipse EMF EMF (Core) EMF Query EMF Transaction EMF Validation GEF GMF M2M QVTo MDT OCL MDT UML2

Standards

Unified Modeling Language

MDT XSD

Model Development Tools XML Schema Definition

Overview

http://www.eclipse.org/modeling/mdt/?project=xsd

The XML Schema Definition is a reference library that provides an <u>API</u> for use with any code that examines, creates or modifies <u>W3C XML Schema</u> (standalone or as part of other artifacts, such as XForms or WSDL documents).

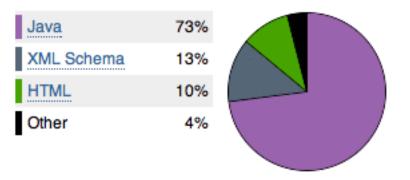
Licensing

https://www.ohloh.net/p/mdt-xsd/analyses/latest



Platforms / Languages

https://www.ohloh.net/p/mdt-xsd/analyses/latest



Home Page: <u>http://www.eclipse.org/modeling/mdt/?project=xsd</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.xsd</u> Wiki Page: <u>http://wiki.eclipse.org/index.php/MDT-XSD</u>

Predictability

Release Train? Yes

http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-</u> plan.php?planurl=http://www.eclipse.org/modeling/mdt/xsd/project-info/plan.xml&component=XSD New & Noteworthy: <u>http://wiki.eclipse.org/MDT_Helios_New_and_Noteworthy</u> Release Notes: <u>http://www.eclipse.org/modeling/mdt/news/relnotes.php?project=xsd&version=HEAD</u>

Release Timeline

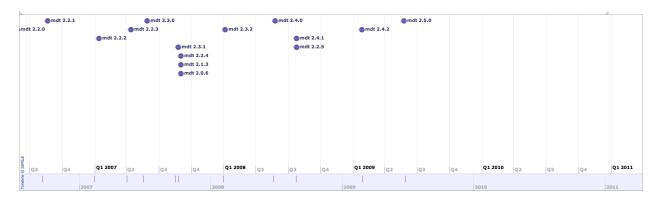
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.mdt.xsd



No Eclipse update site has been listed.

- 2.5.0: 2009-06-24 completed
- 2.4.2: 2009-02-25 completed
- 2.4.1: 2008-08-25 completed
- 2.4.0: 2008-06-25 completed
- 2.3.2: 2008-02-05 completed

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.mdt.xsd

Lead(s) Ed Merks, individual

Committers

Nick Boldt, Red Hat Inc. Ed Merks, individual Marcelo Paternostro, IBM David Steinberg, IBM

Mailing List: http://dev.eclipse.org/mhonarc/lists/mdt-xsd.dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.mdt.xsd

		by lo	gin		by 3-6-	9 mo	onth a	ctiv	ity	
	one	three	six	nine		one	three	six	nine	(9-6-3)
davidms				26	emerks	24	24	39	357	
*elena					nickb		2	4	170	
emerks	24	24	39	357	davidms				26	
* hlhuang	;				*elena					
marcelop					*hlhuang					
nickb		2	4	170	marcelop					

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.mdt.xsd

Company	-	Active nmitters		active mitters	С					Approx. LOC per Commit
individual						(16.67%)		· · ·		
Total	1		5		6		4		24	

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010 IBM RedHatInc.				2003	2004	2005	2006	2007	2008	2009	2010
		<u>IBM</u>				22%	8%	21%	4%	23%	54%	
modeling mdt ved		RedHatInc.				33%	35%	7%	25%	3%	7%	
modeling.mdt.xsu		<u>individual</u>				42%	56%	70%	69%	72%	38%	100%
	-	<u>unknown</u>			100%	1%						

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		<u>IBM</u>				50%	60%	60%	50%	50%	33%	
modeling.mdt.xsd		RedHatInc.				16%	20%	20%	25%	25%	33%	
modeling.mdt.xsu		<u>individual</u>				16%	20%	20%	25%	25%	33%	100%
		<u>unknown</u>			100%	16%						

User Community

XSD is purely a framework with only a crude sample editor, so there is no direct user community or at least that community is effectively just an adopter community.

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

XSD is used heavily by EMF for importing XML Schemas as Ecore models than then supporting serialization and deserialization conforming to that schema. As such, it acts as an XML binding framework analogous to JAXB.

XSD is also used by the Web Tools project to support their XML Schema editing tools.

Learning

Documentation: http://wiki.eclipse.org/index.php/MDT-XSD

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.technology.xsd</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=MDT&component=XSD</u>

Consulting

N/A

Customizability

XML Schema is a formally specified W3C model that should not be customized other than via the specified annotations mechanism.

Extensibility

XML Schema is not intended to be extended.

Scalability

XSD has been successfully used to work with large industrial scale instances.

Usability

XML Schema is a complex formalism that includes both an abstract syntax and a concrete syntax. Both aspects are supported via a single unified API.

Interoperability

XSD supports all aspects of the XML Schema 1.0 specification and is by that definition a conforming processor.

Dependencies

http://www.eclipse.org/modeling/mdt/downloads/?project=xsd

Eclipse EMF EMF (Core)

Standards W3C XML Schema

PMF

Presentation Modeling Framework

Overview

http://www.eclipse.org/pmf/

The PMF project is a modeling solution and code generation facility to build enterprise data presentation application. It provides the basic functional concepts of user interaction in a PIM level UI modeling language. This framework is highly extensible and can be integrated with any UI technology such as SWT/Jface, e4, JSF, XUL, Swing, GWT, Ajax, Silverlight or others. The final goal is to provide a rich-feature, intrusive, high extensible UI MDA framework.

Licensing (Eclipse Public License)

Platforms / Languages

(Java)

Home Page: <u>http://www.eclipse.org/pmf/</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.pmf</u> Wiki Page: <u>http://wiki.eclipse.org/Pmf</u>

Predictability

Release Train? No

http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php

Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.pmf</u> New & Noteworthy: N/A Release Notes: N/A

Release Timeline http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.pmf

N/A

Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.pmf

Lead(s)

Jim Van Dam Yves Yang, Soyatec

Committers

Thomas Guiu, Soyatec Olivier Moises Jim Van Dam Yves Yang, Soyatec

Mailing List: http://dev.eclipse.org/mhonarc/lists/pmf-dev/maillist.html

Lines Changed By Committer

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.pmf

		by	login		b					
	one	three	six	nine		one	three	six	nine	(9-6-3)
jvandam					omoises	937	937	937	937	
omoises	937	937	937	937	yvyang	2,393	27,431	58,230	68,258	
tguiu					jvandam					
yvyang	2,393	27,431	58,230	68,258	tguiu					

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.pmf

	A	ctive	Inac	tive		Total	Percent	Co	ommits	Lines	of Code	Approx. LOC
Company	Com	mitters	Comm	itters	Co	mmitters	Active	(2010)	(2	2010)	per Commit
individual	1	(50%)	0	(0%)	1	(50%)	100%	97	(37.45%)	937	(23.06%)	10
Soyatec	1	(50%)	0	(0%)	1	(50%)	100%	162	(62.55%)	3,127	(76.94%)	19
Total	2		0		2			259		4,064		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
 		Soyatec									100%	76%
modeling.pmf		individual										23%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

		2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
			Soyatec									50%	50%
1	nodeling.pmf		individual									50%	50%

User Community

The first user community will be e4 application. Other user communities will be explored as the framework evolves and the requests of the communities.

Adopter Community

TBD

Learning

Documentation: http://wiki.eclipse.org/Pmf

Training N/A

Support

Forum: <u>http://www.eclipse.org/forums/eclipse.pmf</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=PMF</u>

Consulting

N/A

Customizability

The framework is designed to be customized to support other relative frameworks such as UI solutions, code generation or transformation engines, programming languages, and all kinds of data models like EMF, UML, and programming language data models.

Extensibility

The extensibility is one of the main features of this framework. It targets for two kinds of users:

- 1. Application designers
- 2. System developers

Application designers are the final users of this framework, and system developers are the PMF framework developers, i.e. they extend PMF for application designers by providing domain components.

Scalability

The framework is a tooling solution; it is not a runtime library, so scalability is not so critical. But it should support large models.

Usability

Usability is not the main focus of the first release. It will be explored in later major releases by integrating with other tools such as Instant Preview, Visual Designer, DSL support, etc..

Interoperability

N/A

Dependencies

Eclipse (SWT/JFace, e4) EMF EMF (Core) EMFT EGF

Standards

None.

TMF Xtext

Textual Modeling Framework Xtext

Overview

http://www.eclipse.org/Xtext

<u>Xtext (http://www.eclipse.org/Xtext)</u> is a framework for development of programming languages and domain specific languages (DSLs). Just describe your very own DSL using Xtext's simple EBNF grammar language and the generator will create a parser, an AST-meta model (implemented in EMF) as well as a full-featured Eclipse text editor from that.

The Framework integrates with technology from Eclipse Modeling such as EMF, GMF, M2T and parts of EMFT. Development with Xtext is optimized for short turn-arounds, so that adding new features to an existing DSL is a matter of minutes. Still sophisticated programming languages can be implemented.

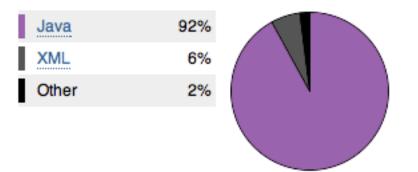
Licensing

http://www.ohloh.net/p/xtext/analyses/latest

Eclipse Public License	1419 files
Apache License 2.0	469 files

Platforms / Languages

http://www.ohloh.net/p/xtext/analyses/latest



Home Page: <u>http://www.eclipse.org/Xtext</u> Portal Page: <u>http://www.eclipse.org/projects/project_summary.php?projectid=modeling.tmf.xtext</u> Wiki Page: N/A

Predictability

Release Train? Yes http://wiki.eclipse.org/Helios/Participating_Projects http://wiki.eclipse.org/Galileo#Projects http://wiki.eclipse.org/Ganymede#Projects http://wiki.eclipse.org/Europa_Simultaneous_Release#Projects http://www.eclipse.org/callisto/callistoprojects.php Plan: <u>http://www.eclipse.org/projects/project-plan.php?projectid=modeling.tmf.xtext</u> New & Noteworthy: <u>http://www.eclipse.org/Xtext/documentation/0_8_0/new_and_noteworthy.php</u> Release Notes: N/A

Release Timeline

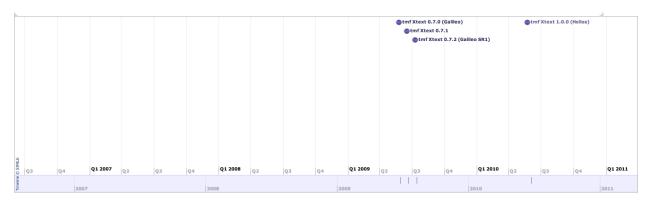
http://www.eclipse.org/projects/timeline/index.php?projectid=modeling.tmf.xtext

Releases

The Eclipse update site for this project is http://download.eclipse.org/modeling/tmf/updates/nightly/.

Xtext 1.0.0 (Helios):	2010-06-23	planned	۱
Xtext 0.7.2 (Galileo SR1):	2009-08-10	completed	
Xtext 0.7.1:	2009-07-17	completed	
Xtext 0.7.0 (Galileo):	2009-06-24	completed	

Here is the Project Release Timeline.



Committer Community

http://www.eclipse.org/projects/project_summary.php?projectid=modeling.tmf.xtext

Lead(s)

Sven Efftinge, itemis AG

Committers

Heiko Behrens, itemis AG Michael Clay, individual Sven Efftinge, itemis AG Moritz Eysholdt, itemis AG Peter Friese, itemis AG Dennis Hübner, itemis AG Jan Koehnlein, itemis AG Bernd Kolb, SAP AG Knut Wannheden, Paranor Sebastian Zarnekow, itemis AG

Mailing List: http://dev.eclipse.org/mhonarc/lists/xtext-dev/maillist.html

Lines Changed By Committer

. . .

http://dash.eclipse.org/dash/commits/web-app/active-committers.cgi?project=modeling.tmf.xtext

	by login										
	one	three	six	nine							
bkolb											
dhubner	229	266	361	5,325							
hbehrens	109	100,085	110,872	152,725							
jkohnlein	17,140	32,242	32,335	47,824							
kwannheden			182	1,508							
mclay	2	15,054	15,423	16,085							
meysholdt	30,374	31,413	48,746	114,623							
pfriese	227	279	298	51,561							
pschonbac				14,175							
sefftinge	18,478	263,416	329,153	362,127							
szarnekow	150,128	285,042	340,714	608,073							

by 3-6-9 month activity													
	one	three	six	nine	(9-6-3)								
dhubner	229	266	361	5,325									
hbehrens	109	100,085	110,872	152,725									
jkohnlein	17,140	32,242	32,335	47,824									
mclay	2	15,054	15,423	16,085									
meysholdt	30,374	31,413	48,746	114,623									
pfriese	227	279	298	51,561									
sefftinge	18,478	263,416	329,153	362,127									
szarnekow	150,128	285,042	340,714	608,073									
kwannheden			182	1,508									
pschonbac				14,175									
bkolb													

Graphs that slope up to the right indicate increasing activity by the committer. Those that slope down to the right indicate decreasing activity. Bars are nine, six and three month activity history scaled per committer.

Company Commit Details

http://dash.eclipse.org/dash/commits/web-app/commit-count-loc.php?project=modeling.tmf.xtext

Company		Active mmitters		Inactive mmitters	Co		Percent Active		nmits)10)			Approx. LOC per Commit
individual	1	(12.5%)	1	(33.33%)	2	(18.18%)	50%	126	(0.7%)	6,382	(1.32%)	51
itemisAG	7	(87.5%)	1	(33.33%)	8	(72.73%)	87.5%	17,792	(99.3%)	475,571	(98.68%)	27
Total	8		3		11			17,918		481,953		

Percentage of Lines Changed by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=loc

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		<u>SAPAG</u>								1%		
modeling.tmf.xtext		individual								1%	1%	1%
		itemisAG								98%	99%	98%

Percentage of Active Committers by Company by Year

http://dash.eclipse.org/dash/commits/web-app/project-diversity.cgi?type=active

	2010		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
		<u>SAPAG</u>								11%		
modeling.tmf.xtext		<u>individual</u>								11%	20%	12%
		itemisAG								77%	80%	87%

User Community

Xtext is widely used to develop IDE integration for domain-specific languages as well as general purpose programming languages.

Some examples are:

- in the industry (http://blog.efftinge.de/2009/11/xtext-in-automotive-industry.html)
- in research (<u>http://blog.efftinge.de/2009/09/xtext-in-wind-energy.html</u>)
- other open-source projects (Eclipse b3, EMF Query2 or the RelaxNG tooling from Eclipse WTP)

Bugzilla:

Number of bugzilla entries (Total / Fixed)	: 964 / 804
Number of enhancements (Total/Fixed)	: 218 / 125
Number of bugs (Total/Fixed)	: 746 / 679

Newsgroup:

Number of newsgroup messages (total / February 2010): 4659 / 508

Downloads (Jul 1, 2008 - Mar 1, 2010)



Adopter Community

Xtext is a framework, hence its users are also essentially adopters.

Learning

Xtext is shipped with a comprehensive documentation. In addition a tutorial, a webinar, and several slide decks are available.

Documentation: http://www.eclipse.org/Xtext

Training

http://www.opcoach.com/en/Training_Courses.html http://www.itemis.com/itemis-ag/language=en/2642/education-and-coaching

Support

Xtext runs a very active newsgroup (up to 50 messages per day).

Forum: <u>http://www.eclipse.org/forums/eclipse.modeling.tmf</u> Bugs: <u>https://bugs.eclipse.org/bugs/buglist.cgi?product=TMF&component=Xtext</u>

Consulting

http://www.opcoach.com/en/Consulting.html http://www.itemis.com/itemis-ag/language=en/2621/portfolio

Customizability

Xtext is known to be very flexibly and highly customizable. Its architecture allows to change and adapt any component on a very fine-grained basis. This is mainly supported through the means of dependency injection.

Extensibility

For the same reason Xtext is highly customizable it is also very extensible.

Scalability

Xtext has reportedly been used successfully in large projects (see <u>http://blog.efftinge.de/2009/11/xtext-in-automotive-industry.html</u>).

It's uncertain whether successfully Xtext has been used in a large project, based on our conversations with people who are familiar with using the project. That being said, Xtext produces textual files so it is as scalable as any programming language in terms of the end user experience. There are issues with the way the framework does its syntax highlighting and validation which sometimes make it slow but this can be worked around with the extensibility and customizability capabilities. There are some issues with expression all grammars, that is semantic and syntactic predicates are not supported.

Usability

Xtext is meant to be a professional open-source product. itemis is not selling any commercial product based on the open-source work, but instead sells services around the open-source products. That's why usability is much more important compared to other open-source projects at Eclipse.

Interoperability

Xtext is implemented in Java and runs on any JVM which supports the Java 1.4 specification.

Dependencies

http://www.eclipse.org/modeling/tmf/downloads/?project=xtext

Eclipse EMF EMF (Core) EMFT MWE M2T Xpand Orbit

Standards None.