

## CASE TOOL MATRIX

The choice of the modeling environment is one important element to model-based systems engineering (MBSE). The feature list of a particular tool is not sufficient to judge on the tool's appropriateness for your organization. A crucial factor is the ability to integrate the modeling tool into the legacy environment. Interoperability and customizability are as important as usability and standard conformity.

Do this:

- Identify modeling users, stakeholder and related requirements
- Define the crucial modeling use cases as well their in- and output
- Identify workflows and interfaces with other engineering tools
- Evaluate tool candidates with appropriate test cases
- Make your MBSE environment to subject of continuous improvement

Do not do that:

- Buy a tool license based on the tool's feature list
- Apply the software modeling tool for systems engineering
- Nice diagrams are more important than the data underneath
- Underestimate the importance of usability and standard conformity
- Let IT purchase the licenses

oose Innovative Informatik eG offers support to your organisation during the introduction of MBSE. We may support with requirements to the modeling environment, during evaluation of respective solutions, by backing pilot projects or the customization of development processes and methods.



From Knowledge to Mastery



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alternate name]	List entry date	Vendor	Vendor website	Tool website [if deviating]	Contact	version	Target audience System Developers	UML	SysML	BPMN
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Enterprise Architect			www.sparxsystems.eu		Peter.Lieber@sparxsyste		Systems,			
[EA]	20.04.2018	SparxSystems	www.sparxsystems.com		<u>ms.eu</u>	14	Architecture	2.5.1	1.5	2.0
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MagicDraw		No Magic	www.nomagic.com		<u>contacts@nomagic.com</u>	19.0	Process Analysts, language engineers,	2.5.1	1.5	2.0
MagicDraw		No Magic	www.nomagic.com		<u>contacts@nomagic.com</u>	19.0	Process Analysts, language engineers, architects,	2.5.1	1.5	2.0
MetaEdit+	28.03.2018	MetaCase	www.metacase.com		info@metacase.com	v.5.5	Process Analysts, language engineers, architects, developers, domain experts	2.5	1.4	1.0
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Tool name [if applicable, alternate name]	Enterprise Architecture Frameworks		Class diagram?	Block defintion diagram?	Component diagram?	Composite structure diagram?	Internal block diagram?	Object diagram?	Package diagram?	Requirement diagram?	Parameuric diagram	Profile diagram?	Activity discrement	Activity diagram r		Interaction overview diagram?	Communication diagram?	Sequence diagram?	Timing diagramm?	State machine diagram?	Other diagrams [please name propritary diagrams and their purpose] GSN (Goal Structuring Notations) for	Collaboration solution(s) [please own or 3rd-party solutions]	Reporting Document generation formats
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MacA&D (Mac OS) WinA&D (Windows OS)			x	x	x	x	-	x	x	x	- 1	×××	: 3	x 1	x	x	x	x	x	x	Task Diagram (threads of execution) System Diagram (processors, devices and interfaces) PERT charts (project management)		html, xml, (doc, docx indirectly through MS word) csv, pdf, jpg, gif, bmp
MagicDraw MetaEdit+ Modelio	NAF, UAF, DoDAF, UPDM ArchiMate 3.0.1 MoDAF, DoDaF, NAF, UPDM, TOGAF, ArchiMate	fuml, ALF SDL, SA/SD, EAST-ADL	x x x	x x x	x x x	x x x	x	x	x	x	ĸ	x x x x	: 3	ĸ	x	x	x x x	x x x	x		methodological, tooled support to build the models recommended by TOGAF. - ArchiMate diagrams	Teamwork Server, Teamwork Cloud collaborative simultanous model editing (cf Google docs), versioning with Git, SVN etc - Subversion for basic teamwork - dedicated server for models and projects governance and centralized	html, doc, docx, xls, xlsx, ppt, pptx, rtf, odf, xml html, xml, doc, rtf, csv, user defined HTML, Microsoft Word (docx), Microsoft Excel (xslx), Open Office/LibreOffice (odt)
objectiF RPM			x	x			x		x	x			,	x 3	x					x	Goal diagram, system context diagram	administration	doc, docx, xls, xlsx, pdf
PragmaDev Studio PTC Integrity Modeler Sinelabore	MODAF, DoDAF, UPDM, UAF	SDL OVM, Data Modeling, MARTE	x	x	x	x	x	x	x	x	x	x x		x	x	x	x	x	(x)		Variation Diagram, General Graphics Diagram, Database Design Diagram, Reqs	Reqtify Internal Solution for multi-User Access, User Control, Parallel Working, Branch&Merge, Change Tracking, LDAP-compatible Web-Access to the model information. OMG RAS-based Model-in-Model concept	html, rtf, pdf, sgml html, xmi, docx, xlsx, bmp, png, jpeg xls
UML Lab			x						x		,	x										GIT,SVN	PNG, SVG, PDF; more on request



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	Data exchange	Interoper	Engineering tool integration [please name	Configuration & change management [please name relevant tool	s processes Safety & reliablity analysis [please name relevant standard, tool	User interface		Tool bar/palette?	Ization
	formats [e.g. OSLC, ReqIF, XMI]	IDE Integration [please name IDE solution]	standard software solutions like Requirement Management, PDM, etc.]	function, plugin or similar]	function, plugin or similar]	modeling [UI mock- ups, plots, etc.]	Tool-API?	Tool	Tool
Astah	хмі	None	JIRA, Confluence	SVN Integration Plugin	Astah GSN edition	None	x	x	x
Enterprise Architect [EA]	OSLC, XMI, CSV	Link to Eclipse, Visual Studio Eclipse, MSVC	Polarion, DOORS, Integrity, Jira, TFS, ServiceNow, WIRKE, Rational Team Concert, Rational Quality	Baselining in tool or LemonTree [3rd Party]	3rd party plugins	yes	x	x	x
Rhapsody	OSLC, XMI	2008/10/12/15/17, support for Windriver Workbench,	Manager, DOORS, DNG, MIDS, RELM, TestConductor, ATG, INCHRON,LDRA, Phoenix Integration, Simulation X, Medini Analyse, JIRA through RTC, Clearcase, RTI, DDS, Simulink and Matlab, Modelica	based on RTC or third party products such as SVN, GIT etc.	Integration to Medini Analyse and built Safety and reliability analysis profile	yes, also links to Altia	x	X	x
MacA&D (Mac OS)	XML, text import/export of diagrams, requirements and dictionary	Customizable Integration	Builtin Requirements Management	Builtin Revision Notes		Screen Models with Live Prototype	x	x	x
			Polarion, DOORS, Jira, Teamcenter, HP Quality		FMECA according to IEC 60812:2006 standard, Hazard analysis according to the following medical standards: IEC 62304				
MagicDraw	OSCL, ReqIF, XMI	Eclipse	Center, BigLever, Pure::Variants.	Jira	ISO 14971:2007.	Yes	x	x	x
MetaEdit+ Modelio	XMI, MXM, ReqIF, own XMI, ReqIF, ArchiMate, BPMN	Visual Studio, Eclipse No strong integration with an IDE. Any IDE can be used with Modelio.	Requirements engineering, test execution etc, DOORS, HPQC, and any tool supporting ReqIF	MetaEdit+ API supports both Jira/Git/etc - Subversion-based. - Workflow can be adapted to customers.	ISO26262, EAST- AL Not off the shelf. Modelio can be adapted to support safety and reliability analysis.	yes, user defined languages no	X X Comp lete Java API	x	x x
objectiF RPM	ReqIF, XMI		Jira				x	x	x
	XML, PR, xLIA, IF, Fiacre		Reqtify	Customizable. Clear Case, CVS		Yes	x		x
PTC Integrity	OSLC, XMI, ReqIF via RM-Integration (Integrity LM, DOORS) XMI	built-in code editor for all supported languages plus integration in all IDEs via automatic code synchronization	Integrity Lifecycle Manager, Windchill, Thingworx, DOORS, DOORS NG, & others via OSLC	Internal Solution for multi-User Access, User Control, Parallel Working, Branch&Merge, Change Tracking. This can be also controlled externally, e.g. using SCC.	Safety, Risk & reliablity analysis using project-based UML Profiles	yes	×	x	x
				,					
UML Lab	XMI,Ecore	Eclipse	On request	Git/SVN-Based			x	x	x

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		Model execution					UML	
Tool name [if applicable, alternate name]	Simulation / model execution [please	Mathematical expressions calculation [is the tool capable to compute such	the tool capable to solve mathematical	Monitoring and logging of model parametes?	Code generation?	Customization of	Target languages of the code	Reverse engineering [Code to UML]
alternate namej	name diagram kinds and technology]	expressions]	equations]	parainetes?	Û	the code generator	generator C, C++, Java as default, other	UNILJ
Astah	None	None	None	None	x	Yes	languages are available with Plug-ins (free)	Yes
Enterprise Architect [EA]	All behavioral UML/SysML features, operations & function in C, C++, Java, & BPSIM	Complete algebra, DMN	Based on modelica integration	yes	x	yes	Action Script, C, C# (for both .NET 1.1 and .NET 2.0) C++ (standard, plus .NET managed C++ extensions) Delphi, Java (including Java 1.5, Aspects and Generics) PHP, Python, Visual Basic Visual Basic .NET and any custom language	structure
Rhapsody	All behavioral UML/SysML features, operations & function in C, C++, Java,, FMI, FMU	Complete algebra	Integration to Mathworks Matlab and Maxima, also FMU integration to Modelica	yes	x	yes		Classes, methods, activities, state machines
MacA&D (Mac OS)	Causal Loop Diagrams with builtin simulation		induction in the second s			yes	C, C++, Java, Objective-C, Swift, PHP, Xojo, Delphi, Ada, C#, SQL,	Requires MacTranslator or WinTranslator (Structure Charts from C, Pascal, Basic, Fortran or PHP), (Class Diagrams from C++, C#, Java, Objective-C, Delphi, Ada, Xojo, Swift, PHP), (Data Models from SQL)
	Model interpretation (without code generation), mockups using Block, IBD, Activity, Statemachine, Parametrics. Co- simulation. Based on OMG fUML and W3C SCXML. Supported action languages: Javascript, Ruby, Groovy and Python are supported by default; other JSR223 compatible language implementations can be freely	Complete alcohoo	Internal solver, Matlab, OpenModelica, Mathematica,	Yes				Gaussi company diagram
MagicDraw	downloaded and plugged.	Complete algebra	Maple	Yes	х	Yes	C, C++, Java, C#, IDL	Classes, sequence diagrams
MetaEdit+ Modelio	simulation / execution in 3rd party tools like Simulink, UPPAAL, SPIN, or customers own execution environments Simulation definition (composite structure diagram) based on FMI (Functional Mock-up Interface)	internal math operation Modelio can export data to Modelica and MathML.	internal math operations, integration with 3rd party tools Modelio can export data to Modelica and MathML.	yes Monitoring of FMI (Functional Mock-up Interface) simulation parameter	x	Yes Yes	Python, IEC 61131, SQL, Corba, Delphi, XML, JSON C++, Java, C#, SQL	User defined, available for classes, attributes, inheritance etc. Class diagrams (classes, operations, attributes, links, code,)
objectiF RPM								
	Native simulator (no code generation) based on SDL action language and semantic.	V	N-			N	C C	
PragmaDev Studio		Yes	No	Yes	x	Yes	C, C++	
PTC Integrity Modeler	Early Validation of System Behavior for SysML State Machines annotated with Action Language; with Sequence Diagram support. Animation of state machines while simulating behavior described in state machines, operations etc. in C, C++, Java, VB, ASAL.		via integration with functional models	yes, e.g. in Excel	x	yes, our Model to Text transformation is also model- based, i.e. the generators are meta-generated from models.	C, C++, C#, Java, VB, Ada, SPARK Ada, IDL, SQL, ARINC653 out of the box. You can also add your	
Sinelabore	State Machine Diagrams			yes	x	yes	C, C++, Java, C#, Python	
UML Lab					x	yes, fully customizable, template-based (Xpand)	any; ships with Java and PHP	Fully customizable, template- based; ships with structural round-trip (packages, classes, associations, methods) for Java and PHP



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In our more (if population a ternate name)     Operating systems     License Model [Ifee, single, floating]     Usense cost     Image: Cost (image:						eIntormatik
Ataba     Windows, Mac OS, Linux     free, individual, organizational, academic individual, department wide     free for students and 50.39 per menth     x     S0 days       Integrate Architect [EA]     windows and MAC, Linux based on WINE     ongle and floating available for Server Infrastructure obscription model     depends on licenis, special     x     S0 days       Nagabandy     Win7, Win10, Linux BMEL, Windows Server 2012     trial, single, floating, tuben     x     60 days       NagABD (Nincol) (NinAbl (Nincol) (Nin	applicable,	Operating systems	License Model [free, single, floating]	License	Evaluation license?	Evaluation license limitations
Interprise Architet     Windows and MAC, Linux based on WINE     single and floating available for Server infrastructure     depends on license, special     x     R0 days (can be expected on subscription model       Diapsody     Win7, Win10, Linux BHEL, Windows Server 2012     trial, single, floating, token     x     60 days       Mack&D (Mac OS)     Standard S395, Dektop S595, Developer 505 or Subscription     x     60 days       Mack&D (Mac OS)     Single User, 5-User Site, Unlimited User Site     Standard S395, Dektop S595, Developer 505 or Subscription     x     initial Save Committed User Site       Mack&D (Mac OS)     Win7, Win8, Win10, Mac OSX     Single User, 5-User Site, Unlimited User Site     Standard S395, Dektop S595, Developer 505 or Subscription     x     initial Save Committed User Site       MagicDraw     All Java compatible     single, floating     free/def upon request     x     of days       MackEd IV     Vin7, Win8, Win10, Mac OSX     single, floating     starting 2500/month     x     of days       MackEd IV     Vin7, Win8, Win10, Mac OSX, Linux     single, multi     starting 2500/month     x     of days       MackEd IV     Vin7, Win8, Win10, Mac OSX, Linux     single, multi     starting 2500/month     x     of days       MackEd IV     Vin7, Win8, Win10, Mac OSX, Linux     single, multi     starting 2500/month     x     of days       MackEd IV			free, individual, organizational, academic individual,			
[EA]     Windows and MAC, Linux based on WINE     subscription model     academic fees     x     request)       Rhapsady     Win7, Win10, Linux RHEL, Windows Server 2012     trial, single, floating, token     x     60 days       NackBD (Mac OS)     Win7, Win10, Linux RHEL, Windows Server 2012     trial, single, floating, token     sandard 5395, Desktop 5595, Desktop 5595, Desktop 5595, Desktop 5995 or Subscription     x     60 days       NackBD (Mac OS)     Win7, Win8, Win10, Mac OSX     Single User, 5-User Site, Unlimited User Site     Sandard 5395, Desktop 5995, Desktop 5995, Desktop 5995, Desktop 5995, Desktop 5995, Or Subscription     x     Umited Save Comm       NackBD (Windows)     Win7, Win8, Win10, Mac OSX     Single, floating     Provided upon request     x     on demand       MetaEdit*     Win7, Win10, Mac OSX, Linux     single, floating     starting 250E/month     x     30 days       Medelio     - Windows JV, Win8, Win10, Mac OSX, Linux     single, multi     starting 250E/month     x     30 days       Medelio     - Win6x win10, Mac OSX, Linux     single, multi     starting 250E/month     x     30 days       Modelio     - Win6x win10, Mac OSX, Linux     single, multi     starting 250E/month     x     30 days       Notest     - Win6x win10, Mac OSX, Linux     single, multi     starting 250E/month     x     30 days       Notest     <					~	
MacA&D (Mac OS) WinA&D (Windows OS)         Win7, Win8, Win10, Mac OSX         Single User, 5-User Site, Unlimited User Site         Standard 5395, Desktop 5595, Developer 5895 or 5ubscription         x         Limited Save Comm           MagicDraw         All Java compatible         single, floating         Provided upon request         x         on demand           MagicDraw         All Java compatible         single, floating         Provided upon request         x         on demand           MetaEddl+         Win7, Win10, Mac OSX, Linux         single, multi         starting 250C/month         x         30 days           Modelio         - Windows 757, Ubion 7/8/0 and Ubuntu 14.04/16.04 UTS         Open Source version         Free for education with the academic program For the commercial version, the cost depends on the features and type of license.         No feature limitation to feature limitation type of license.         No feature limitation type of license.         No feature limitation type of license.         No feature limitation type of license.					x	30 days (can be extended on request)
MacA&D (Mac OS) WinA&D (Windows OS)         Win7, Win8, Win10, Mac OSX         Single User, 5-User Site, Unlimited User Site         Standard 5395, Desktop 5595, Developer 5895 or 5ubscription         x         Limited Save Comm           MagicDraw         All Java compatible         single, floating         Provided upon request         x         on demand           MagicDraw         All Java compatible         single, floating         Provided upon request         x         on demand           MetaEddl+         Win7, Win10, Mac OSX, Linux         single, multi         starting 250C/month         x         30 days           Modelio         - Windows 757, Ubion 7/8/0 and Ubuntu 14.04/16.04 UTS         Open Source version         Free for education with the academic program For the commercial version, the cost depends on the features and type of license.         No feature limitation to feature limitation type of license.         No feature limitation type of license.         No feature limitation type of license.         No feature limitation type of license.						
WinAD (Windows OS)       Win7, Win8, Win10, Mac OSX       Single User, 5-User Site, Unlimited User Site       Developer 9995 or Subscription Starting at \$25/month       x       Limited Save Common Limited Save Common Save Common         MagicDraw       All Java compatible       single, floating       Provided upon request       x       on demand         MetaEdit+       Win7, Win10, Mac OSX, Linux       single, floating       Provided upon request       x       on demand         Modelio       -Windows 75P1, Windows 81, Windows 10 or later -Redhat Enterprise Linux 6/7, Debian 7/8/9 and Ubuntu 14,04/16,04 UT5       Single, multi       starting 2500/month       x       30 days         Nodelio       -Windows 75P1, Windows 81, Windows 10 or later -Redhat Enterprise Linux 6/7, Debian 7/8/9 and Ubuntu 14,04/16,04 UT5       Open Source version       Free for education with the academic program For the commercial version, the cost depends on the features and type of license.       X       No feature limitation of eature limitation of the cost depends on the features and type of license.       X       So days         object/JF RPM       Win7, Win8, Win10       floating       floating       x       So days	Rhapsody	Win7, Win10, Linux RHEL, Windows Server 2012	trial, single, floating, token		x	60 days
WinAD       WinZ, Win2, Win2, Win2, Win2, Win2, Win2, Mac OSX       Single User, 5-User Site, Unlimited User Site       Developer 9995 or Subscription       x       Limited Save Commons         MagicDraw       All Java compatible       single, floating       depends on multiple factors.       x       on demand         MetaEdite       Win7, Win10, Mac OSX, Linux       single, floating       Provided upon request       x       on demand         Modelio       -Windows 75P1, Windows 10 or later - Rechat Enterprise Linux 6/7, Debian 7/8/9 and Ubuntu 14.04/16.04 ITS       Single, multi       starting 2500/month       x       30 days.         No delio       -Windows 75P1, Windows 10 or later - Rechat Enterprise Linux 6/7, Debian 7/8/9 and Ubuntu 14.04/16.04 ITS       Open Source version       Free for education with the academic program type of license.       X       10 days. Feasible e         object/F RPM       Win7, Win8, Win10       floating       floating       x       30 days	MacA&D (Mac OS)			Standard \$395. Deskton \$595		
MagicDraw       All Java compatible       single, floating       Provided upon request       x       on demand         MetaEdlit+       Win7, Win10, Mac OSX, Linux       single, multi       starting 250€/month       x       30 days         Modelio       -Windows 7 SP1, Windows 7 SP1, Windows 10 or later - Redhat Enterprise Linux 6/7, Debian 7/8/9 and Ubuntu 14.04/16.04 LTS       Open Source version       Free for education with the academic program For the commercial version, the cost depends on the features and type of license.       X       10 days. Feasible end No feature limitation objectiF RPM         Win7, Win8, Win10       floating       x       90 days	WinA&D (Windows	Win7, Win8, Win10, Mac OSX	Single User, 5-User Site, Unlimited User Site	Developer \$995 or Subscription	x	Limited Save Command
MagicDraw       All Java compatible       single, floating       Provided upon request       x       on demand         MetaEdit+       Win7, Win10, Mac OSX, Linux       single, multi       starting 250€/month       x       30 days         Modelio       - Windows 7 SP1, Windows 8.1, Windows 10 or later - Redhat Enterprise Linux 6/7, Debian 7/8/9 and Ubuntu 14.04/16.04 LTS - Mac OS X 10.9/10.10/10.11       Open Source version       Free for education with the academic program For the commercial version, the cot depends on the features and type of license.       X       10 days. Feasible e No feature limitation objectiF RPM         win7, Win8, Win10       floating       x       90 days				depends on multiple factors.		
Modelio       - Windows 7 SP1, Windows 8.1, Windows 10 or later - Redhat Enterprise Linux 6/7, Debian 7/8/9 and Ubuntu 14.04/16.04 LTS - Mac OS X 10.9/10.10/10.11       Open Source version       Free for education with the academic program For the commercial version, the cost depends on the features and type of license.       X       10 days. Feasible e No feature limitation         objectiF RPM       Win7, Win8, Win10       floating       X       90 days	MagicDraw	All Java compatible	single, floating		x	on demand
3900€ for a permanent license or	Modelio	- Windows 7 SP1, Windows 8.1, Windows 10 or later - Redhat Enterprise Linux 6/7, Debian 7/8/9 and Ubuntu 14.04/16.04 LTS		Free for education with the academic program For the commercial version, the cost depends on the features and		30 days 10 days. Feasible extension. No feature limitation.
3900€ for a permanent license or						
PTC Integrity	PTC Integrity					
Modeler     Win 7, Win 10     floating, subscription     please contact PTC     x     30 days		Win 7, Win 10	floating, subscription	please contact PTC	x	30 days
Sinelabore         Win7, Win10, Mac OSX, Linux         single         x         number of states	Sinelabore	Win7, Win10, Mac OSX, Linux	single		x	number of states
UML Lab Windows, Linux, OS X single, floating from 199€; free for education x 30 days	UML Lab	Windows, Linux, OS X	single, floating	from 199€; free for education	x	30 days



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	Miscellaneous
Tool name [if applicable, alternate	
name]	Please describe outstanding characteristics of your tool
Astah	Usability, Extensively, Abundant online contents, excellent customer support
Enterprise Architect [EA]	Enterprise Architect is a comprehensive UML analysis and design tool for UML, SysML, BPMN and many other technologies. Covering software development from requirements gathering through to the analysis stages, design models, testing and maintenance. EA outfits your entire team, including analysts, testers, project managers, quality control staff and deployment team, for a fraction of the cost of some competing products. EA is a multi-user, Windows-based, graphical tool designed to help you build robust and maintainable software. It also features flexible and high quality documentation output.
Observed v	
Rhapsody	Complete modelling environment from Enterprise Architecture down to SW code gneration. With complete set of OSLC integrations via RMM to requirements, test, config and change management.
MacA&D (Mac OS) WinA&D (Windows OS)	Scriptable Reports with full control over content and format and access to all requirement, dictionary and diagram data. Large team development features like Team Documents, Namespaces, Import/Export, Document Templates, Adhoc Reports and Extensive Customization
MagicDraw	Strict support of underlying UML/SysML/BPMN/UAF metamodel. Validation of model completeness and correctness. Outstanding usability based on major work scenarios, automation where possible. Customization of metamodel and UI, based on customer processes.
MetaEdit+	Support any modeling need and code generation target with domain-specific languages (or adapt OMG languages to your need)
Modelio	<ul> <li>The Modelio Constellation server enables you to easily share and re-use your models, and to establish the governance of your enterprise repository.</li> <li>Requirement analysis: Requirements are an integral part of your models. They can be traced, linked to your models and used in impact analysis.</li> <li>Multi-standard: Modelio integrates all the latest modeling standards and actively participates in the interoperability format used to guarantee the exchange of models between different tools.</li> <li>Support &amp; Consultang: Modeliosoft's international support team, its network of partners around the world and its consultants will help you make a real success of your project, including at the international level. SOFTEAM, Modeliosoft's parent company, has 600 architecture and development consultants, and 200 consultants in project management, modeling, methods and approaches.</li> <li>The Open Source ecosystem: The presence of an active contributing community ensures zero editor "lock-in", and provides numerous developments and significant user feedback. The forum is a valuable way to share problems and solutions. Since 1990, the users of Objecteering and then Modelio have been ensured backward compatibility and been assisted in the update of their repositories. SOFTEAM ensures customer follow-up and solution sustainability which is unrivaled on the market.</li> </ul>
objectiF RPM PragmaDev	traceability along the entire application life cycle (even to code),agile/hybrid planning, continuous testing
Studio	The tool includes a full testing environement: to check non regression on the model, or to verify an implementation is conform to the model.
PTC Integrity Modeler	Open and highly flexible implementation of UML-based modeling, true parallel working in one model, unique Model-in-model concept, Model-based Integration Hub using OSLC and HTML, Connected Systems and System-of-Systems Development by our Thingworx integration
Sinelabore	SinelaboreRT was built especially for embedded software developers. It focuses on just one task: Generation of readable and maintainable code from hierarchical UML state - and from activity diagrams. With its unique features the tool covers well the requirements of embedded real-time and low-power application developers. With its C++/Python/C# and Swift language backends is also a perfect tool for developers of server or desktop applications.
UML Lab	Agile reverse- and round-trip engineering using the same customizable code templates for generation and reverse engineering

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