Quick overview

MagicDraw is an award-winning business process, architecture, software and system modeling tool with teamwork support. Designed for Business Analysts, Software Analysts, System Analysts, Programmers, QA Engineers, and Documentation Writers, this dynamic and versatile development tool facilitates analysis and design of Object Oriented (OO) systems and databases. It provides the industry's best code engineering mechanism (with full round-trip support for J2EE, C#, C++, CORBA IDL programming languages, .NET, XML Schema, WSDL), as well as database schema modeling, DDL generation and reverse engineering facilities.

MagicDraw® 18.0 LTR features

	Personal Edition	Standard Edition	Professional Edition	Architect Edition	Enterprise edition
UML support					
Support for UML 2.5 metamodel and notation.	+	+	+	+	+
Import of UML 1.4 metamodel.	+	+	+	+	+
UML diagrams support: (Class diagram [includes Package and Objects diagrams], Composite Structure diagram, Use Case diagram, Sequence diagram, Activity diagram, State Machine diagram, Protocol State Machine diagram, Communication diagram, Implementation diagram [includes Component and Deployment diagrams], Interaction Overview diagram).	+	+	+	+	+
UML extensions (profiles and diagrams)					
Instance Tables.	+	+	+	+	+
Glossary support.		+	+	+	+
Custom stereotypes with images, constraints, tagged values.	+	+	+	+	+
Custom diagrams: creating, storing, exporting, importing.		+	+	+	+
Generic Numbering mechanism in DSL (Domain Specific Language) models.		+	+	+	+
Web Application Extensions (WAE) profile ant diagram, Content diagram, Robustness profile and diagram, Free form diagram, Struts profile and diagram, User interface diagram.		+	+	+	+
Generic Table, Relation Map.		+	+	+	+
Domain Specific Language Customization engine.		+	+	+	+
UML profiles for Enterprise Distributed Object Computing (EDOC), Enterprise Application Integration (EAI), Use Case Description, C#, Schedulability, Performance and Time Specification.		+	+	+	+
Ability to specify use case properties as defined by RUP. Ready to use UCS can be produced from MagicDraw model.		+	+	+	+
Testing Profile.		+	+	+	+
Zachman Framework sample.		+	+	+	+
Metric Tables.				+	+
WSDL profile and diagram, XML schema profile and diagram, CORBA IDL profile and diagram.				+	+
Editor operations					
Swap Actions in Activity diagram.	+	+	+	+	+
Autosize action using smart control.	+	+	+	+	+
Automatic class, package, subsystem, message names, attribute, parameter types, and operation return type completion.	+	+	+	+	+
HTML text editor.	+	+	+	+	+
Drag and drop support for multiple actions: copy (using CTRL), setting types and behaviors, creating new attributes and associations, open files by drag and drop on application.	+	+	+	+	+
Multiple views on same model elements.	+	+	+	+	+
Display related elements, inner elements for selected element on diagram or display paths for multiple selected elements on diagram.	+	+	+	+	+
Automatic syncronization on related model elements, Parameters and Arguments (Pins, InteractionUse Arguments, Message Arguments and others).	+	+	+	+	+
Extracting in Activity, State Machine, Sequence and Composite Structure diagrams.				+	+
Colors and formatting					
Diagram Legend.	+	+	+	+	+
Customizable views of UML elements (pen color, fill color, font).	+	+	+	+	+
Customizable display properties (show/clear stereotype names, change name display settings).	+	+	+	+	+
Support for styles (copy and paste symbol style, reuse style from user module, create new style, apply style or part for existing diagram elements, individual style for stereotyped elements).	+	+	+	+	+
Word wrap notes, textboxes and path names.	+	+	+	+	+
Color chooser on the main toolbar.	+	+	+	+	+

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Browser					
Model structure management via tree-like interface.	+	+	+	+	+
Quick operations menu (including edit specification, change name, print diagram, and others) for model elements.	+	+	+	+	+
Filter out unessential elements.	+	+	+	+	+
Favorites.	+	+	+	+	+
Smart Packages and Queries Support.		+	+	+	+
Navigation					
Hyperlinks to web or other model elements on any model element, notes and textboxes.	+	+	+	+	+
Webstyle navigation backward and forward through the diagrams.	+	+	+	+	+
A list of recently closed diagrams.	+	+	+	+	+
Go to related elements functionality while in the browser or a diagram.	+	+	+	+	+
Modeling facilitations					
Model refactoring functions.	+	+	+	+	+
Diagram type changing wizard.	+	+	+	+	+
Automatic Instantiation Wizard.		+	+	+	+
Use Case Scenario Editor.		+	+	+	+
GoF, Java, JUnit design patterns.		+	+	+	+
Customize and extend all patterns.		+	+	+	+
New class diagram wizard.		+	+	+	+
Transformation of UML models to specific XML Schema and DB models.		+	+	+	+
Supported file formats					
Support for XMI 2.1. Native files are stored in XMI (XML metadata interchange) format.	+	+	+	+	+
Import for XMI version 1.0, 1.1, 1.2.	+	+	+	+	+
Export of MagicDraw model to EMF UML2 2.x XMI.	+	+	+	+	+
Import of EMF UML2 2.x XMI to MagicDraw.		+	+	+	+
Sparx Systems Enterprise Architect Import plugin for importing EA exported XMI UML 2.1(XMI 2.1) to MagicDraw-supported file format (*.mdxml).		+	+	+	+
Export/import the UML model into/from the MOF (CMOF, EMOF and Ecore) XMI format.				+	+
Model Decomposition					
Use modules in projects.	+	+	+	+	+
Lazy loading allows specifying what modules should not be loaded into memory by default when a project is started.	+	+	+	+	+
Read-Write modules allow seamless module editing of the fragmented model.	+	+	+	+	+
Project can declare shared packages that might be visible in other projects, which use the project as a module.		+	+	+	+
Save project part (module) to separate file.		+	+	+	+
OCL support					
OCL constraints on any model element.	+	+	+	+	+
Automatic syntax validation and highlighting during edit.	+	+	+	+	+
OCL support in Smart Packages queries and relation maps, matrix criteria.				+	+
OCL support for custom Validation rules.				+	+
Evaluation of invariant OCL 2.0 constraints.				+	+
Analysis					
Diagram wizards for model visualization.		+	+	+	+
The Dependency Matrix with editing, export in to excel, .csv. Export to .csv is also available.		+	+	+	+
Package dependency diagram generation.		+	+	+	+
Find Usages/Find Dependencies, Usage in Diagrams.		+	+	+	+
Visual model comparing.				+	+
Customizable traceability between different levels of abstraction.				+	+
UML model, system analysis and requirements metrics; metric suites, metric calculation according given parameters.				+	+
Validation checks the model for correctness and completeness, displays errors in the model and suggests solutions. The Active validation allows this functionality instantly. Multicolored highlighting of warnings and errors on diagrams and matrixes. Custom rules can be added using OCL, JavaScript, Jython, Jruby, Groovy or BeanShell.				+	+
GUI					
Multiple perspectives for various roles.	+	+	+	+	+
GUI mode with bigger fonts for users needing visual aid.	+	+	+	+	+
Predefined project templates with possibility to create own template.	+	+	+	+	+
Customizable shortcuts for menu items and actions.	+	+	+	+	+
Customizable Toolbars.	+	+	+	+	+
Multiple look and feel selection.	+	+	+	+	+
Specification window for model elements.	+	+	+	+	+
Symbol Properties window for shapes.	+	+	+	+	+
Diagrams Full Screen mode.	+	+	+	+	+
Floating windows support.	+	+	+	+	+

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Image export					
Exporting current diagram, selected shapes, selected diagrams or all diagrams as bitmap (JPEG, PNG) or vector (TIFF, EMF, WMF, EPS, SVG) image.	+	+	+	+	+
Copying current diagram, selected shapes to clipboard as EMF, BMP, PNG or JPG images.	+	+	+	+	+
Select image size and quality (resolution) by specifying DPI property.	+	+	+	+	+
Layout					
Horizontal and vertical spacing of selected symbols.	+	+	+	+	+
Alignment and centering of symbols.	+	+	+	+	+
Option for resizing selected symbols to identical dimensions.	+	+	+	+	+
Centerline feature for lining up symbols in vertical or horizontal position dynamically for instant positioning and alignment of the new element with other surrounding elements in Activity or BPMN diagram.	+	+	+	+	+
Diagram layout engine with nine layout options.		+	+	+	+
Hierarchical layout of class diagrams (layouts according to inheritance tree).		+	+	+	+
Reports					
Report Wizard with the customizable WYSIWYG (What You See Is What You Get) reports is built on top of the Velocity Engine (Open Source Templating engine).	+	+	+	+	+
The type of template files the Report Wizard supports: normal text, RTF, Open XML (DOCX, XLSX, PPTX), HTML, OpenOffice (ODP, ODT, ODS), and XML template (DocBook or FO) files.	+	+	+	+	+
The Report Wizard provides predefined templates (Use Case Specification, Structural, Behavioral, Implementation, Environment, Business Process Modeling Notation, Class, Model Extension, Data Dictionary, IEEE 1233, and Web Publisher).	+	+	+	+	+
Diagram images embedded in reports: SVG, EMF, WMF, JPG and PNG formats.	+	+	+	+	+
Generate reports from console without running MagicDraw.	+	+	+	+	+
Import Tool enables you to dynamically import RTF documents or parts of them into reports.	+	+	+	+	+
Script Tools enables report templates to evaluate or run JavaScript, Ruby, or Groovy codes from templates and external script files.	+	+	+	+	+
Custom Tool enables report templates to use user Java libraries inside the template.	+	+	+	+	+
Image Tool for image manipulation.	+	+	+	+	+
Spreadsheet reports for generic tables without opening any wizards.		+	+	+	+
Model Based reports can be tailored according to specific project.		+	+	+	+
Web Portal template gives interactive web report.					+
Collaboration and Teamwork Server					
Multiple users on one project.		+	+	+	+
One-action server projects migration to new version.		+	+	+	+
LDAP, SSH integrations.		+	+	+	+
Project branching support		+	+	+	+
Project access permission management.		+	+	+	+
Project versioning and rollback support.		+	+	+	+
Gradual upgrade allows working with different client versions.		+	+	+	+
Data synchronization between Teamwork Servers on different sites.		+	+	+	+
Send messages to other Teamwork Server users.		+	+	+	+
Offline work mode is supported for working on saved copy of project.		+	+	+	+
MagicDraw Teamwork Server integration with IBM® Rational® ClearCase®.		+	+	+	+
MagicDraw Teamwork Server integration with Apache™ Subversion®.		+	+	+	+
Integration with LDAP servers.		+	+	+	+
Secure socket layer (SSL) connections while working with Teamwork Server.		+	+	+	+
Project Usage Map analysis of server projects relations.		+	+	+	+
IDE Integrations					
Integration with Eclipse Workbench.		+	+	+	+
Automatic code and model synchronization in integrations with all supported IDEs.		+	+		+
Integration window allows integrating MagicDraw with multiple IDEs on the first startup.		+	+		+
Seamless integration with Eclipse 3.7 or later (JDT or Java IDE).		+	Java		+
Model and diagram search engine					
Find window as a separate browser tab. Quick Find in the browser.	+	+	+	+	+
Refactor menu group with Convert To and Replace With menu items.	+	+	+	+	+
Find/Replace.	+	+	+	+	+
Search with wildcards (*, ?).	+	+	+	+	+
Search for a matching model element or symbol by the specified type.	+	+	+	+	+
Search according to different criteria – whole words/fragment, match or ignore case.	+	+	+	+	+
Search according to given tag or constraint.	+	+	+	+	+
Search in active diagram.	+	+	+	+	+
Quick filter field for all Property panes.	+	+	+	+	+
Save search as Query for Smart Package.		+	+	+	+

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Open API					
Access all UML metamodel classes.	+	+	+	+	+
Add, remove, query diagram presentation elements.	+	+	+	+	+
Change presentation elements' properties.	+	+	+	+	+
Create a new diagram type extending existing UML diagrams.	+	+	+	+	+
Insert actions into menus, toolbars, or context menus.	+	+	+	+	+
Save/load project to/from a specified location.	+	+	+	+	+
Add panels into model elements' specification dialogs.	+	+	+	+	+
Get notification on selection changes in data browser or diagrams.	+	+	+	+	+
Write your own Java or Jython plug-ins.	+	+	+	+	+
Create new design patterns.	+	+	+	+	+
Export diagram images using Open API.	+	+	+	+	+
Create new transformations.	+	+	+	+	+
Access and modify generic tables.		+	+	+	+
Merge Plugin.		+	+	+	+
Select elements via the element Selection dialog.		+	+	+	+
Refactor model elements.		+	+	+	+
Display Related Elements in a diagram.		+	+	+	+
Copy elements and symbols.		+	+	+	+
Listen for all changes in a diagram using a single adapter.		+	+	+	+
Add custom environment options.		+	+	+	+
Extend the Eclipse main menu with an additional command provided by a MagicDraw plugin.		+	+	+	+
Create automatic test cases.		+	+	+	+
Scripting engine supporting scripts in BeanShell, JRuby, Jython, Groovy and JavaScript to create custom action for repetitive tasks.			+	+	+
Printing					
Printable pages layout preview in the diagram.	+	+	+	+	+
Print preview and test page printing.	+	+	+	+	+
Page margins size and orientation (landscape/portrait) setup.	+	+	+	+	+
Custom print zoom setup (10%-400% range).	+	+	+	+	+
Fit to page option.	+	+	+	+	+
Fit to X pages wide by Y pages tall option.	+	+	+	+	+
Customizable page header and footer for printing.	+	+	+	+	+
Stamp indicating user name, company, and other properties.	+	+	+	+	+
Localizations					
GUI is available in these languages: English (US), German, Japanese, French, Russian and Thai.	+	+	+	+	+
Other					
Customizable Welcome screen helps to manage projects, provides quick access to the product descriptions, samples, the latest news and updates.	+	+	+	+	+
Auto update of all patches and versions.	+	+	+	+	+
Information about the latest MagicDraw events is accessible via the customizable RSS Reader.	+	+	+	+	+
Resource Manager for downloading the newest resources: localizations, examples, profiles, plugins, templates and custom diagrams.	+	+	+	+	+
Easy MagicDraw installation for Mac OS X (10.3 or above).	+	+	+	+	+
Report issues directly to the Online Customer Support System without running the application or directly from it.	+	+	+	+	+
Information about system, installed or needed licenses and the status is presented in the MagicDraw About screen with the ability to remove unused licenses.	+	+	+	+	+
Information on functionalities that are available in higher editions. The list of the MagicDraw features, plugins, integrations, or products that are available in higher editions only or not installed yet.	+	+	+	+	+
Help system					
Locally available application help system and manual files.	+	+	+	+	+
Tool tips for important GUI components.	+	+	+	+	+
Hints related to a user's actions provide information about available MagicDraw functions and demonstrate how to perform some actions more effectively.	+	+	+	+	+
Productivity tips displayed in a progress window.	+	+	+	+	+
Tips of the day.	+	+	+	+	+

	Personal Edition	Standard Edition	Professional Edition	Architect Edition	Enterprise edition
Licensing					
The same-edition or product keys are bundled into a single file so that the same product can be unlocked regardless of the version.	+	+	+	+	+
Allow/ deny/ reserve products to be used by specific users, hosts, groups.	+	+	+	+	+
Flexera Software FLEXnet licensing system is used to manage No Magic products licenses.		+	+	+	+
Edition change without reinstall through changing the license key.		+	+	+	+
Floating license for using the same license on multiple machines.		+	+	+	+
Floating License checkout. No longer a need for a constant connection to the Floating Server.		+	+	+	+
Floating Server overload notification to system administrator.		+	+	+	+
Mobile license for using the same license at work, with laptop, or at home.		+	+	+	+
Select the desired edition (Enterprise/Professional/Standard/Demo for read-only purposes) while connecting to Floating License server.		+	+	+	+
Easy monitoring and management of users and license status with web-based application.		+	+	+	+
Floating and Mobile License Support for Plugins.		+	+	+	+
Code engineering					
Code engineering set creation for specified programming languages.			+	+	+
Create static structure in the model by reversing source code.			+	+	+
Code generation from model static structure.			+	+	+
Association of external source code editor.			+	+	+
Drag and drop source code files from your native file manager to a desired code engineering set.			+	+	+
Java round-trip (reverse engineering + code generation)					
Java source code reverse engineering.			Java		+
Java source code generation from static structure diagrams.			Java		+
Java source code reverse engineering to sequence diagram.					+
Java 8.0 support.			Java		+
Support for all Java editions.			Java		+
Model syntax checker for checking errors in the model against Java language rules.			Java		+
System CLASSPATH variable parsing for class references while performing reverse engineering.			Java		+
Java bytecode files (.class, .jar, .zip) reverse engineering.			Java		+
Reverse from classpath. Create a reference to a class in the browser and reverse it from classpath to get all members and details.			Java		+
C++ round-trip					
C++ source code reverse engineering.			C++		+
C++ source code generation from static structure diagrams.			C++		+
Model syntax checker that checks for errors in the model against C++ language rules.			C++		+
Support of all ANSI C++ 2003 preprocessor directives on reverse engineering.			C++		+
Generation of ANSI C++ 2003 templates.			C++		+
Code engineering support for Microsoft Visual Studio 2003 and 2005.			C++		+
Generate separate .h and .cpp files.			C++		+
.NET reverse engineering and code generation					
C# source code reverse engineering.			C#		+
C# source code generation from static structure diagrams.			C#		+
CIL (MSIL) reverse engineering.			C#		+
Executable files reverse engineering (requires a disassembler installed).			C#		+
CORBA IDL reverse engineering and code generation					
CORBA IDL 3.0 source code reverse engineering.				+	+
CORBA IDL 3.0 source code generation from static structure diagrams.				+	+
Model syntax checker checks for errors in the model before CORBA IDL code generation.				+	+
WSDL reverse engineering and code generation					
WSDL 1.1 reverse engineering.				+	+
WSDL 1.1 code generation.				+	+
Model Driven Development (MDD) Support					
Integration with AndroMDA - the popular open source MDD tool.		+	+	+	+
Integration with openArchitectureWare (oAW).		+	+	+	+
Integration with E2E Bridge.		+	+	+	+
Integration with Mia-Generation and Mia-Transformation.		+	+	+	+
Integration with Netfective Blu Age.		+	+	+	+
Integration with Interactive Objects' ArcStyler architectural platform. It works with the separate MagicDraw Edition based on the Professional Java.			+	+	+

MagicDraw® Add-ons

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SysML plugin					
The separate SysML plugin supports all SysML diagrams.		+	+	+	+
SysML 1.4 Specification Support		+	+	+	+
SysML 1.3 Specification Support		+	+	+	+
SysML 1.2 Specification Support		+	+	+	+
Cameo Simulation Toolkit					
Cameo Simulation Toolkit is a MagicDraw plugin which provides a unique set of tools supporting the standardized construction, verification and execution of computationally complete models based on a foundational subset of UML®.		+	+	+	+
UPDM plugin					
The UPDM plugin supports all the Unified Profile for DoDAF and MODAF (UPDM) products, sample project for UPDM, UPDM usability features, DoDAF & MODAF project templates and MagicDraw perspectives.		+	+	+	+
Cameo Business Modeler plugin					
The Cameo Business Modeler plugin supports all the BPMN 2.0 diagrams, provides business process model validation and verification, export to XPDL 2.2, includes sample projects for plugin usability features, BPMN project templates, reports, and Business Modeler perspective.		+	+	+	+
Cameo DataHub plugin					
The plugin allows the user to import, export, synchronize, and make references between Cameo Requirements+, MagicDraw, SysML plugin, DoDAF plugin,Rational DOORS, Rational RequisitePro, and CSV files (other tools are to be supported soon).		+	+	+	+
Cameo SOA+ plugin					
The plugin leverages the UML along with the latest SOA modeling standard, SoaML, to provide both architects and developers an integrated solution for creating optimal SOA architectures and implementations.		+	+	+	+
Cameo Data Modeler Plugin					
Cameo Data Modeler plugin for MagicDraw provides support for Entity-Relationship (ER), SQL database and XML schema engineering. ER, SQL and XSD modeling and diagramming and a set of model transformations is provided. Generation and reverse engineering of DDL scripts for popular database flavors (Oracle, DB2, MySQL, PostgreSQL, Standard SQL, Microsoft SQL Server, PointBase, Sybase, Pervasive, Cloudscape, Microsoft Access) is suported as well as reverse from JDBC connections. Generation and reverse engineering of XML schema files is supported.		+	+	+	+
MagicRQ plugin					
Plugin allows the user to move requirements between MagicDraw, Rational's DOORS or IBM Rational® RequisitePro® seamlessly. All of the requirements information is moved into MagicDraw for maximum traceability and interaction.		+	+	+	+
MagicDraw RSXConverter					
RSXConverter provides a seamless way to convert IBM® Rational® Software Architect (RSA) or IBM® Rational® Software Modeler (RSM) file format (*.emx, epx and efx) to MagicDraw-supported file format (*.mdxml).		+	+	+	+
MagicDraw RConverter					
RConverter provides a seamless way to convert Rational Rose Model file format (*.mdl) to MagicDraw-supported file format (*.xmi).		+	+	+	+
ParaMagic plugin					
ParaMagic plugin allows model designers to run simulations from the earliest stage of system design, explore system performance, estimate cost, and allocate resources. (It requires SysML plugin)		+	+	+	+
Model Merge plugin					
Plugin enables copying changes between different project versions. Merge functionality in MagicDraw works both on file system files and projects stored in MagicDraw Teamwork server.		+	+	+	+
Methodology Wizards plugin					
The plugin automates modeling tasks and extends methodology support in MagicDraw.				+	+
SPEM plugin					
Support for Software Process Engineering Metamodel (SPEM) 2.0. SPEM is a standard adopted by OMG for software development process definition, specifically including those processes that involve or mandate the use of UML.		+	+	+	+
MARTE profile					
MagicDraw supports the UML profile for MARTE, which provides support for specification, design, and verification/validation stages. It adds capabilities to UML for model-driven development of Real Time and Embedded Systems.		+	+	+	+
CSV Import plugin					
The plugin allows reading values in a comma separated values (CSV) file and create model elements, diagrams and relationships from that data.		+	+	+	+

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QVT plugin					
QVT (Query/View/Transformation) is a standard defined by the Object Management Group for specifying model-to-model transformations.Now you can run model transformations directly in MagicDraw - the QVT plugin uses the Operational QVT implementation that is provided by the Eclipse M2M project.		+	+	+	+
TOGAF plugin					
TOGAF (Open Group Architecture Framework) is an open standard providing a comprehensive approach to the design, planning, implementation, and governance of enterprise information architectures.		+	+	+	+
Converter of MagicDraw 9.x files to 17.0 format					
This software is used to convert MagicDraw version 9.x or earlier files to 17.0 format.		+	+	+	+
Zachman Framework plugin					
The Zachman Framework is a formal and highly structured way of viewing and defining an enterprise from different perspectives. It is represented as a schema used for enterprise architecture modeling.		+	+	+	+

Contact your No Magic Sales Executive, if you would like to learn more about these integrations or would like to see a demo.

Corporate Headquarters

No Magic, Inc.
One Allen Center
700 Central Expressway South, Suite 110
Allen, TX 75013, USA
Main: +1-214-291-9100
Fax: +1-214-291-9099
E-mail: sales@nomagic.com