



Model-Code-Deploy platform

Product Overview

Visual Paradigm for UML (VP-UML) is a powerful, cross-platform and yet the most easy-to-use visual UML modeling and CASE tool. VP-UML provides software developers the cutting edge development platform to build quality applications faster, better and cheaper! It facilitates excellent interoperability with other CASE tools and most of the leading IDEs which excels your entire Model-Code-Deploy development process in this one-stop-shopping solution.

Features

UML Support

1. Class diagram **ENHANCED**
2. Use case diagram
3. Sequence diagram **ENHANCED**
4. Communication diagram
5. State machine diagram
6. Activity diagram
7. Component diagram **ENHANCED**
8. Deployment diagram
9. Package diagram
10. Object diagram
11. Composite structure diagram
12. Timing diagram
13. Interaction overview diagram
14. Use case details editor
15. Support use case flow of events
16. Generate sequence diagram from flow of events
17. Business use case support

Requirements Management

1. Requirement diagram
2. Textual analysis
3. CRC card diagram
4. User interface designer
5. Identify candidate activity and action by textual analysis
6. Define and customize requirement types
7. Display full set of requirements in tabular view

Business Process Modeling

1. Business process diagram **ENHANCED**
2. Data flow diagram
3. Event-driven process chain diagrams **NEW**
4. Process map diagram **NEW**
5. Export business process diagram to BPEL
6. Identify candidate business process element by textual analysis
7. Automatically stretch pools and lanes to fit diagrams
8. Smart routing for connecting objects
9. Extend business process model with stereotype and tagged value **NEW**
10. Set state for data object **NEW**
11. Organization charts **NEW**

Mind Mapping

1. Mind mapping diagrams
2. Create link relationships between nodes
3. Smart layout for mind mapping nodes and diagram **NEW**

Database Modeling

1. Entity relationship diagram
2. ORM diagram
3. Reverse existing database into ERD
4. Generate and execute database schema (DDL)
5. Reverse stored procedure to ERD
6. Foreign key auto naming
7. Download database driver automatically
8. Show database architecture by ORM pane
9. Customizable SQL generation
10. Generate class diagram from ERD

11. Generate ERD from class diagram
12. Support Oracle schema in generate/reverse database
13. Generate/reverse user-defined database type
14. Modeling database trigger and stored procedures
15. Reverse DDL to ERD models
16. Generate/reverse database trigger and stored procedure

Object-Relational Mapping

1. Java ORM code generation
2. .NET ORM code generation
3. PHP ORM code generation
4. Lazy collection fetching
5. Database view support
6. Support custom ID generator
7. Mapping one class to multiple tables
8. Custom query support
9. Automatic array table generation
10. Generate criteria classes
11. Generate DAO Code
12. Generate Factory Code
13. Generate POJO Code
14. Optional libraries selection
15. Hibernate annotations support in ORM persistence
16. Generate Hibernate version tag for optimistic concurrency control
17. Formula support for ORM attribute **NEW**

Visual Modeling

1. Annotation with callout shapes
2. Annotation with freehand shapes
3. Organize model elements and diagrams using Model Explorer
4. Support bookmark
5. Handi-selection
6. Customizable data type to fit to any programming language
7. Overview diagram
8. Resource centric interface
9. Model sharing
10. Cut/copy/paste
11. Copy to other applications as image
12. Undo/redo

13. Mouse gestures
14. Reverse connector direction
15. Support grouping
16. Jump to shape/model
17. Quick connect
18. Navigate to connected element
19. Model comment
20. Duplicate shape/model
21. Selectable/non-selectable shapes
22. Lock diagram
23. Reference to any type of artifact
24. Advanced file and directory chooser
25. Advanced tree support
26. Duplicate, move and reconnect connector
27. Package header for all types of diagram
28. Visualize tagged value in diagram element
29. Sub-diagram and reference indicator
30. Visio integration
31. Import Visio stencils
32. Rectilinear, Round Rectilinear, Oblique, Round Oblique, Curve connector style
33. Sweeper
34. Create shape with specified initial size
35. Create shapes in diagram from tree (drag and drop)
36. Auto fit shapes size **ENHANCED**
37. Inline editing
38. Spell checking
39. Visual alignment guide
40. Various grid options
41. Show diagram info in diagram
42. Jump to diagram
43. Drag-and-drop copying, moving and reordering of classes and entity members
44. Open view from model element
45. Diagram renaming boxes
46. Add folders as favorites
47. Display Undo/Redo action names **NEW**
48. Inverse shape selection **NEW**

Model Element Nicknaming

1. Assign nicknames to model elements

Model Transitor

1. Generate and link model elements **ENHANCED**
2. Trace the origin of model elements (model traceability)
3. Diagram Transitor **NEW**

Style and Formatting

1. Customizable shape style and formating
2. Incorporate image in diagram
3. Stereotyped element appearance
4. Rich text documentation
5. Add rich text element to diagram
6. Format copier
7. Enrich documentation of model with images
8. Save/load template for documentation of model

Team Collaboration with VP Teamwork Server

1. Concurrent and collaborative modeling with VP Teamwork Server
2. Import project to VP Teamwork Server
3. Checkout project from VP Teamwork Server
4. Commit project to VP Teamwork Server
5. Update changes from VP Teamwork Server to local working copy
6. Checkout old revision from VP Teamwork Server
7. Revision comparison with VP Teamwork Server
8. Detect and resolve conflict with VP Teamwork Server
9. Branch/Tag project with VP Teamwork Server
10. Merge changes between branches with VP Teamwork Server
11. Export multiple revisions from VP Teamwork Server
12. Run VP Teamwork Server on common Java web servers

Team Collaboration with CVS Repository

1. Concurrent and collaborative modeling with CVS Repository
2. Import project to CVS Repository
3. Checkout project from CVS Repository
4. Commit project to CVS Repository
5. Update changes from CVS Repository to local working copy
6. Checkout old revision from CVS Repository
7. Revision comparison with CVS Repository
8. Detect and resolve conflict with CVS Repository

9. Branch/Tag project with CVS Repository
10. Merge changes between branches with CVS Repository
11. Export multiple revisions from CVS Repository

Team Collaboration with Subversion Repository

1. Concurrent and collaborative modeling with Subversion Repository
2. Import project to Subversion Repository
3. Checkout project from Subversion Repository
4. Commit project to Subversion Repository
5. Update changes from Subversion Repository to local working copy
6. Checkout old revision from Subversion Repository
7. Revision comparison with Subversion Repository
8. Detect and resolve conflict with Subversion Repository
9. Branch/Tag project with Subversion Repository
10. Merge changes between branches with Subversion Repository
11. Export multiple revisions from Subversion Repository

Team Collaboration with Perforce

1. Concurrent and collaborative modeling with Perforce Repository
2. Import project to Perforce Repository
3. Checkout project from Perforce Repository
4. Commit project to Perforce Repository
5. Update changes from Perforce Repository to local working copy
6. Checkout old revision from Perforce Repository
7. Revision comparison with Perforce Repository
8. Detect and resolve conflict with Perforce Repository
9. Branch/Tag project with Perforce Repository
10. Merge changes between branches with Perforce Repository
11. Export multiple revisions from Perforce Repository

Documentation Generation

1. PDF report generation **ENHANCED**
2. MS Word report generation **ENHANCED**
3. HTML report generation **ENHANCED**
4. Project publisher
5. Ad Hoc report creation
6. Intelligent element sorting in report generation

Printing

1. Print multiple diagrams
2. Preview printable pages
3. Print clip marks
4. Page maring, size and orientation alteration support
5. Fit-to-pages option
6. Fit-to-ratio option
7. Customizable page header and footer
8. Project name and diagram name display in header or footer
9. Print with frame or border support
10. Toggle gradient color printer
11. Quick print support

IDE Integrations

1. Activate full UML environment from your favorite IDEs
2. Automatic code and model synchronization
3. Simple installation of IDE integration
4. Import existing VP-UML project to IDE integration
5. Integration with Eclipse
6. Integration with NetBeans
7. Integration with IntelliJ IDEA
8. Integration with WebLogic Workshop
9. Integration with Borland JBuilder
10. Integration with Oracle JDeveloper
11. Multilingual support in IDE integration

State Machine Diagram Code Generation

1. Generate Java code from state diagram
2. Generate C++ code from state diagram
3. Generate C# code from state diagram
4. Generate VB.NET code from state diagram

Java Round-Trip Engineering

1. Reverse Java source code to class diagram
2. Update Java source code based on the class diagram

Reverse Engineering

1. Instant reverse engineering code or executable to class diagram
2. Reverse engineering Java source, classes and jar
3. Reverse engineering C++ source
4. Reverse engineering .NET dll and exe
5. Reverse engineering CORBA IDL source
6. Reverse engineering Ada 9x source
7. Reverse engineering XML
8. Reverse engineering XML schema
9. Reverse engineering database with JDBC
10. Reverse engineering Hibernate mapping file
11. Reverse engineering PHP 5.0 source
12. Reverse engineering Python
13. On-demand Java reverse engineering
14. Support template parameter

Code Generation

1. Instant generate code from diagram
2. Generate Java **ENHANCED**
3. Generate C#
4. Generate VB.NET
5. Generate PHP 5.0
6. Generate Object Definition Language
7. Generate Flash ActionScript 3.0 **ENHANCED**
8. Generate IDL
9. Generate C++ **ENHANCED**
10. Generate Delphi
11. Generate Perl
12. Generate Xml Schema
13. Generate Python
14. Generate Objective-C
15. Generate Ada
16. Generate Ruby
17. Support template parameter
18. Template support for generating code with generic constructs
19. Customizable code generation

Shape Editor

1. Design arbitrary shapes
2. Import SVG shapes
3. Incorporate different shapes into UML diagram
4. Organize shapes by gallery, category and stencil
5. Advanced shape design capabilities

Layout Facilities

1. Automatic diagram layout
2. Aligning and centering shapes
3. Make all selected shapes same width/height
4. Automatic distribution shapes

Interoperability

1. Import Telelogic Modeler project files
2. Import and export EMF based UML2 model
3. Command-line operations
4. Import and export XMI 1.0, 1.2 and 2.1
5. Import and export XML
6. Import and export VP project file format
7. Import and export Use Case model to MS Word
8. Import Rational Rose project files
9. Import ERwin data modeler project files
10. Generate BPEL for Oracle workflow engine
11. Generate BPEL for JBoss workflow engine
12. Export diagrams as JPG, PNG, SVG and EMF image files
13. Export diagrams as PDFs
14. Slice exported diagrams into smaller segments
15. Import Rational Software Architect files **NEW**
16. Copy diagram elements as XML **NEW**

Intuitive User Interface

1. Group diagram by category
2. Advanced property pane **ENHANCED**
3. Dockable window user interface
4. New project generation using predefined templates
5. Easy-to-use "New Diagram" dialog
6. Flexible zooming
7. Pallet-style toolbar
8. Collapsible toolbar
9. Display tool names for toolbar buttons
10. Expand grouped toolbar buttons
11. Display various diagram categories in toolbar
12. Numerous looks-and-feels
13. Import user preference from existing workspaces
14. Multilingual support
15. Searchable Options

Automatic Updates

1. Automatic online updating
2. Maintain local update server with update synchronizer

Open Architecture

1. Plug-in support (Java)
2. VP model with XML interaction

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