

**Smart Development Environment Professional Edition for Eclipse** (SDE PE-EC) is a modeling platform designed to support system architects, developers, UML™ designers, and data modelers to accelerate the entire model-code-deploy process for complex enterprise applications through our best-of-breed and award-winning visual modeling technology that facilitates UML visualization (the latest UML 2.1 notation and all 13 diagrams supported) and data modeling (ERD).

### Powerful and Easy-to-use GUI

Now developers can create diagrams much faster than any tool on the market through SDE-EC's most intuitive resource-centric and mouse location sensitive GUI. Tidy up your complex and messy diagrams is just a matter of one mouse click by using SDE-EC's automatic diagram layout technology and yet the unique gesture editing capability makes diagramming a fun task.

### Mighty Code Generation Engines

The forward and reverse code engines automatic derive models from code or from code to models in just seconds is readily accessible for your choice of 10 programming languages including Java, C++, .NET, PHP and XML.

### No More Database Programming!

Forward and Reverse engineering from Class diagram to Entity-Relation Diagram (ERD) and from ERD to database generation and vice-versa can be done visually and diagrammatically and it is fully compatible with Hibernate. Visualize and automate the entire object-relational mapping (ORM) process is now transparent to software developers.

### Excellent Interoperability and Integration Support

SDE-EC is a well integrated environment with Eclipse, you have the option for round-trip engineering to keep model and code synchronized. Furthermore, SDE PE-EC facilitates import/export for XMI of version 1.0, 1.2 and 2.1. Rational Rose and ERwin data model project file import support are also available in the Enterprise Edition.

### Team Development Support

Teamwork Server enables your software developer teams to work on the same projects in parallel. SDE-EC also helps developers to eliminate tedious document preparation with automatic report generator that supports for popular HTML, MS Word and PDF report generation and publishing.

### Extendibility and Custom Design Support

Extends UML capabilities beyond the latest UML 2.1 is not a dream! Now, SDE-EC allows you to design new notation or incorporate custom shapes or symbols by using our embedded shape editor, image icon import, UML profile or Visio integration capability.

## Key Features

- |   |                                   |
|---|-----------------------------------|
| 1. Full UML 2.1 notations                     | 2. Requirements management        |
| 3. Object-relational mapping layer generation | 4. Code round-trip engineering    |
| 5. Code generation and reverse engineering    | 6. Team collaboration (client)    |
| 7. PDF, MS Word, HTML report generation       | 8. Import/export to XML and image |
| 9. Shape Editor — design your own shapes      |                                   |

## Pricing

Prices are provided in US dollars

<p><b>Single Seat License</b></p> <hr/> <p>Unit price <b>\$699.00</b></p> <p>Unit price with 1 year maintenance <b>\$838.50</b></p> <p>1 year maintenance cost 20% of unit price.</p>	<p><b>Floating License</b></p> <hr/> <p>Unit price <b>\$908.50</b></p> <p>Unit price with 1 year maintenance <b>\$1090.00</b></p> <p>The price of Floating License is calculated in 30% more of the single seat license.</p> <p>To know more about floating license, please visit Floating License page at <a href="#">here</a></p>	<p><b>Software Maintenance</b></p> <hr/> <p>Extend 1 year maintenance</p> <p>Single Seat License <b>\$139.50</b></p> <p>Floating License <b>\$181.50</b></p> <p>All version upgrades of Visual Paradigm products are included as part of software maintenance. Customers are entitled to get all version upgrades within their software maintenance period.</p>
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## Switch to Professional Edition

From Edition	Single Seat License		Floating License	
	with maintenance	without maintenance	with maintenance	without maintenance
<b>Standard</b>	<b>\$480.00</b>	<b>\$629.50</b>	<b>\$623.50</b>	<b>\$818.00</b>
<b>Modeler</b>	<b>\$720.00</b>	<b>\$769.50</b>	<b>\$935.50</b>	<b>\$1000.00</b>
<b>Personal</b>	<b>\$768.00</b>	<b>\$797.50</b>	<b>\$1019.50</b>	<b>\$1049.00</b>

Customers can upgrade the existing edition to get more features and functionalities from your Visual Paradigm products.

## Detail 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
8. Deployment diagram
9. Package diagram
10. Object diagram
11. Composite structure diagram
12. Timing diagram
13. Interaction overview diagram
14. Use case detail editor
15. Use case flow-of-events listing
16. Generate sequence diagrams from flow of events lists
17. Select attribute's getter or setter as call message's action **NEW**
18. Business model use case support

### Requirements Management

1. Requirement diagram
2. Textual analysis
3. CRC Cards
4. Identify candidate activity and action by textual analysis
5. Define and customize requirement types
6. Display full set of requirements in tabular view
7. Support generating ID for Requirements

### Database Modeling

1. Entity relationship diagram
2. ORM diagrams
3. Reverse engineer existing databases to entity relationship diagrams (ERDs) **ENHANCED**
4. Generate and execute database schema (DDLs)
5. Conceptual, logical and physical ERD support **NEW**
6. Reverse engineer stored procedures to ERDs
7. Foreign key auto-naming
8. Define PK naming pattern **NEW**
9. Define FK relationship naming pattern **NEW**
10. Model primary key in object model by using the <<PK>> stereotype **NEW**
11. Download database drivers automatically
12. Display database architecture in object-relational mapping (ORM) pane
13. Customizable SQL generation
14. Generate class diagrams from ERDs
15. Generate ERDs from class diagrams
16. Select target diagram when first synchronized between class diagram and ERD **NEW**

17. Jump between ORM class and entity **NEW**
18. Generate and reverse engineer database support for Oracle schema
19. Generate or reverse engineer user-defined database types
20. Database trigger and stored procedure modeling
21. Reverse engineer DDL models to ERD models
22. Database trigger and stored procedure generation and reversal
23. Unique and Index support for entities **NEW**
24. Convert a normal association to ORM association **NEW**
25. Support AbstractPersistable class for generating non ORM super class attributes **NEW**

## Object-Relational Mapping

1. Java ORM code generation
2. Lazy collection fetching
3. Database view support
4. Custom ID generator support
5. Map single classes to multiple tables
6. Custom query support
7. Automatic array table generation
8. Criteria class generation
9. DAO code generation
10. Factory code generation
11. POJO code generation
12. Optional library selection
13. Hibernate annotation support in ORM persistence
14. Generate Hibernate version tags for optimistic concurrency control
15. Formula support for ORM attribute

## Visual Modeling

1. Design Patterns support **NEW**
2. Annotation with callout shapes
3. Annotation with freehand shapes
4. Organize model elements and diagrams using Model Explorer
5. Bookmark support
6. Handi-Selection tool
7. Customizable data types for use with multiple programming languages
8. Overview diagrams
9. Resource-centric interface
10. Model sharing
11. Cut, copy and paste
12. Copy diagrams as images for use in other applications
13. Undo and redo options
14. Mouse gestures
15. Reverse connector direction
16. Group creation support
17. Jump to feature for selecting a particular shape or model
18. Quick connect feature
19. Easy navigation to connected elements
20. Model commenting
21. Duplicate shapes and models
22. Selectable/non-selectable toggling for shapes
23. Diagram locking
24. Reference to any type of artifact
25. Advanced file and directory selector
26. Advanced tree support
27. Duplicate, move and reconnect connectors
28. Package headers for all types of diagrams
29. Tagged value display toggling for diagram elements
30. Sub-diagrams and reference indicators

31. Visio integration
32. Import Visio stencils
33. Rectilinear, round rectilinear, oblique, round oblique and curve connector styles
34. Space reclamation or elimination using Sweeper feature
35. Create shapes with user-defined initial sizes
36. Drag-and-drop creation of shapes using trees in diagrams
37. Auto-fit shape sizes
38. In-line editing **ENHANCED**
39. Spell checking
40. Visual alignment guides
41. Numerous grid options
42. Diagram information display in diagrams
43. Jump to diagram feature
44. Drag-and-drop copying, moving and reordering of classes and entity members
45. Open view from model element
46. Diagram renaming boxes
47. Add folders as favorites
48. Display Undo/Redo action names
49. Inverse shape selection
50. Create new attribute with Enter key
51. Automatic reroute connector when overlapped with other shapes
52. Hide shapes or type of shapes on a diagram **NEW**
53. Visualize related model element **NEW**
54. Enforcing master view between model element and shape **NEW**

## Model Element Nicknaming

1. Assign nicknames to model elements

## Model Transitor

1. Generate and link model elements
2. Trace the origin of model elements (model traceability)
3. Diagram Transitor **ENHANCED**
4. Navigate between operation and sequence diagram

## Style and Formatting

1. Customizable shape style and formatting
2. Image incorporation in diagrams
3. Stereotyped element appearance
4. Rich text documentation
5. Add rich text elements to diagrams
6. Shape format copier
7. Enrich model documentation with images
8. Save/load template for model documentation
9. Display stereotyped model element as image icon **NEW**

## Team Collaboration with VP Teamwork Server

1. Concurrent and collaborative modeling with VP Teamwork Server
2. Import projects to VP Teamwork Server
3. View projects from VP Teamwork Server
4. Commit project changes to VP Teamwork Server **ENHANCED**
5. Update local project copy using VP Teamwork Server **ENHANCED**
6. Review past revisions using VP Teamwork Server
7. Compare past revisions using VP Teamwork Server
8. Detect and resolve conflicts using VP Teamwork Server
9. Branch and tag projects using VP Teamwork Server
10. Merge branch changes using VP Teamwork Server **ENHANCED**
11. Export multiple revisions from VP Teamwork Server
12. Run VP Teamwork Server on common Java web servers
13. Element based revision history **NEW**

## Team Collaboration with CVS Repository

1. Concurrent and collaborative modeling with CVS Repository
2. Import projects to CVS Repository
3. View projects from CVS Repository
4. Commit project changes to CVS Repository **ENHANCED**
5. Update local project copy using CVS Repository **ENHANCED**
6. Review past revisions using CVS Repository
7. Compare past revisions using CVS Repository
8. Detect and resolve conflicts using CVS Repository
9. Branch and tag projects using CVS Repository
10. Merge branch changes using CVS Repository **ENHANCED**
11. Export multiple revisions from CVS Repository
12. Element based revision history **NEW**

## Team Collaboration with Subversion Repository

1. Concurrent and collaborative modeling with Subversion Repository
2. Import projects to Subversion Repository
3. View projects from Subversion Repository
4. Commit project changes to Subversion Repository **ENHANCED**
5. Update local project copy using Subversion Repository **ENHANCED**
6. Review past revisions using Subversion Repository
7. Compare past revisions using Subversion Repository
8. Detect and resolve conflicts using Subversion Repository
9. Branch and tag projects using Subversion Repository
10. Merge branch changes using Subversion Repository **ENHANCED**
11. Export multiple revisions from Subversion Repository
12. Element based revision history **NEW**

## Team Collaboration with Perforce

1. Concurrent and collaborative modeling with Perforce Repository
2. Import projects to Perforce Repository
3. View projects from Perforce Repository
4. Commit project changes to Perforce Repository **ENHANCED**
5. Update local project copy using Perforce Repository **ENHANCED**
6. Review past revisions using Perforce Repository
7. Compare past revisions using Perforce Repository
8. Detect and resolve conflicts using Perforce Repository
9. Branch and tag projects using Perforce Repository
10. Merge branch changes using Perforce Repository **ENHANCED**
11. Export multiple revisions from Perforce Repository
12. Element based revision history **NEW**

## Documentation Generation

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

## Printing

1. Print multiple diagrams
2. Preview printable pages
3. Print clip marks
4. Page margin, 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 printing
11. Quick print support

## IDE Integrations

1. Embedded modeling environment in Eclipse

## Reverse Engineering

1. Reverse engineer source code or executables to class diagrams using Instant Reverse feature
2. Reverse engineer Java source code, classes and .jar files
3. Reverse engineer C++ source code
4. Reverse engineer .NET .dll and .exe files
5. Reverse engineer CORBA IDL source code
6. Reverse engineer Ada 9x source code
7. Reverse engineer XML
8. Reverse engineer XML Schema
9. Reverse engineer databases with JDBC
10. Reverse engineer Hibernate mapping files
11. Reverse engineer PHP 5.0 source code
12. Reverse engineer Python
13. On-demand Java reverse engineering
14. Template parameter support

## Code Generation

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

## State Machine Diagram Code Generation

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

## Java Round-Trip Engineering

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

## 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 layouts
2. Shape alignment and centering
3. Uniform shape width and height maintenance
4. Automatic shape distribution

## 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. Export diagrams as JPG, PNG, SVG and EMF image files
11. Export diagrams as PDFs
12. Slice exported diagrams into smaller segments
13. Import Rational Software Architect files
14. Copy diagram elements as XML
15. Import Visio drawings into Visual Paradigm **NEW**
16. Import and export Microsoft Excel file for class diagram **ENHANCED**
17. Import and export Microsoft Excel file for state machine diagram **ENHANCED**
18. Import and export Microsoft Excel file for component diagram **ENHANCED**
19. Import and export Microsoft Excel file for deployment diagram **ENHANCED**
20. Import and export Microsoft Excel file for package diagram **ENHANCED**
21. Import and export Microsoft Excel file for requirement diagram **ENHANCED**
22. Import and export Microsoft Excel file for entity relationship diagram **ENHANCED**
23. Import and export Microsoft Excel file for orm diagram **ENHANCED**
24. Import and export Microsoft Excel file for business process diagram **NEW**

## Intuitive User Interface

1. Group diagrams by category
2. Advanced property pane
3. Dockable user interface windows.
4. New project generation using predefined templates
5. Easy-to-use "New Diagram" dialog
6. Flexible zooming
7. Palette-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 preferences 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 and XML interaction

Compare the features included in each edition at <http://www.visual-paradigm.com/product/sde/ec/sdeeditioncomparison.jsp?edition=Professional>

## Related Products



Visual Paradigm International

Tel: +852 2744 8722

Fax: +852 2744 6722

[sales@visual-paradigm.com](mailto:sales@visual-paradigm.com)

[www.visual-paradigm.com](http://www.visual-paradigm.com)

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