Rational® software

IBM® Rational® Rose XDE™ Developer

- *Model-driven development with UML support*

- *Roundtrip engineering Java, C++, Visual Studio and .NET languages*

- *Automatic or on demand model-code synchronization*

- *User-definable patterns and code templates*

- *Assisted modeling*

- *Multiple model support for Model-Driven Architecture*

- *Free-form diagramming*

- *Logical and physical database design*

- *Web publishing and reporting*

- *Runtime analysis including visual execution trace*

IBM® Rational® Rose XDE™ Developer editions offer software designers and developers a rich set of model-driven development and runtime analysis capabilities for building quality software applications. They offer complete visual design and development environments that address the needs of organizations targeting both J2EE-based and .NET-based systems. Our solution allows users to work inside the included Eclipse IDE, or it can be installed into the IBM® WebSphere™ Studio Application Developer and Integration Edition IDEs, and Microsoft® Visual Studio™ .NET. Rational Rose Enterprise is also included to integrate with Microsoft® Visual Studio™ and other leading Java™ platform IDEs. The IBM Rational Rose XDE products extend your development environment or integrate with the one you are already using.

The IBM Rational Rose XDE product family combines the rich heritage of the award-winning IBM Rational Rose family with IBM Rational XDE, which extends your IDE with the world's most advanced software modeling capabilities. Though packaged and purchased together, Rose and XDE are installed separately. They can be used in combination, with some

limitations, but most users will benefit from primarily using one or the other.

Model with the industry leader

The Unified Modeling Language (UML) has become the industry's standard notation for software architecture and design. Rational led the development of the UML so that software professionals could model their analysis and design activities in a uniform, consistent manner. With the UML, you and your team have a common way to communicate and document your software.

To make the UML more practical to work with, we created the industry-leading and award-winning Rational Rose XDE family of visual modeling and development tools. IDC and Gartner both recognize Rational Software as the industry's leader for Analysis, Modeling, and Design (AMD) tools.

The Rational Rose XDE family provides all of the essential elements of UML modeling in one robust product. Applicable to analysts, architects, designers, and implementers, Rational Rose XDE gives you and your team common tools for creating and maintaining UML models of your software project. They support forward and reverse

Product Name	Products Included
IBM Rational Rose XDE Modeler	Rational Rose Modeler, Rational XDE Modeler
IBM Rational Rose Data Modeler	Rational Rose Professional Data Modeler,
IBM Rational Rose XDE Developer for Visual Studio	Rational Rose Professional Visual Basic, Rational XDE Developer - .NET Edition
IBM Rational Rose XDE Developer for the Java Platform	Rational Rose Professional J, Rational XDE Developer – Java Platform Edition
IBM Rational Rose XDE Developer Plus	Rational Rose Enterprise, Rational XDE Developer Plus - .NET and Java Platform editions (includes Rational PurifyPlus and Visual Trace)

engineering of code and both automatic and on-demand modes for round-trip engineering that allow you to control if, when, and how your models are synchronized with your code.

Everyone has good ideas. Having a common modeling language and an easy-to-use tool can document and refine those ideas into artifacts that can be communicated and shared with the whole development team. Rational unifies your team with common modeling technology so that you can build better software faster.

Do more in your IDE
Traditional lifecycle support tools are loosely coupled to your development environment. They have their own user interface, requiring you to ALT-Tab back and forth between two environments. This makes for an awkward and unproductive user experience.

The IBM Rational development solution changes all of that. Rational Rose XDE Developer provides a visual design and development environment inside the IBM WebSphere Studio Application Developer and Integration edition

IDEs, the Microsoft Visual Studio .NET IDE, or the included Eclipse IDE, giving the developer a single user experience.

In addition to visual modeling in your IDE, Rational PurifyPlus, included in Rational Rose XDE Developer Plus, offers a set of runtime analysis tools that detect memory errors, highlight application performance bottlenecks, and identify untested code. These features help you find problems in your code and fix them before they surface in your customer's environment. And since PurifyPlus is

also integrated directly into WebSphere Studio and Microsoft Visual Studio .NET, you can easily analyze your code for reliability and performance and never leave your development environment.

Only Rational makes visual modeling and runtime analysis an integral part of your development environment, allowing you to do more work right inside your IDE.

Develop solid code faster

Rational Rose XDE Developer provides unique code template and patterns features that allow both code- and model-level reuse to speed your development. It also has special "assisted modeling" capabilities that allow you to create and edit UML models in terms that you know well from your IDE and its languages. In addition, Rational PurifyPlus is inside Rational Rose XDE Developer Plus and offers a set of runtime analysis tools that detect memory errors, highlight application performance bottlenecks, and identify untested code. These features help you find problems in your code and fix them before they surface in your customer's environment.

And so you'll never have to go it alone, the Rational Developer Network SM (RDN) serves as your online extended development community. The RDN provides reusable patterns and assets, white papers, discussion forums, and a wealth other technical resources made accessible through a special online customer website. It also includes a set of Rational Development Accelerators where a variety of reusable assets help further speed up your development. With the RDN, you'll never have to start a project from a blank slate-and that will help you write solid code faster.

Product Name	IDE Included	IDE Integration	Languages	Business Modeling	Software Architecture & Design	Coding / Construction	Data Modeling	Runtime Analysis and Visual Trace
IBM Rational Rose XDE Modeler	Eclipse	IBM WSSAD* IBM WSSAD IE**	N/A	X	X			
IBM Rational Rose Data Modeler	Eclipse	IBM WSSAD* IBM WSSAD IE**	N/A	X			X	
IBM Rational Rose XDE Developer for Visual Studio	N/A	MS VS .NET*** MS VS****	C#, VB.NET, ASP.NET, VB, VC++, C++	X	X	X	X	
IBM Rational Rose XDE Developer for the Java Platform	WebSphere Workbench	IBM WSSAD* IBM WSSAD IE**	Java	X	X	X	X	
IBM Rational Rose XDE Developer Plus	WebSphere Workbench	IBM WSSAD* IBM WSSAD IE** MS VS .NET*** MS VS****	Java, C# VB.NET, ASP.NET, VB, VC++, C++	X	X	X	X	X

* IBM WebSphere Studio Application Developer   ** IBM WebSphere Studio Application Developer Integration Edition   *** Microsoft Visual Studio .NET   ****Microsoft Visual Studio

Feature Summary for the Rational Rose XDE Product Family   X=XDE, R=Rose, P=PurifyPlus

	Rose XDE Modeler	Rose Data Modeler	Rose XDE Developer for Java	Rose XDE Developer for Visual Studio	Rose XDE Developer Plus
	EIT Architect			EIT Developer	
	Rose Modeler XDE Modeler	Rose Professional Data Modeler	Rose Professional J XDE Developer for Java	Rose Professional C++ Rose Professional VB XDE Developer for VS.NET	Rose Enterprise XDE Developer for Java Plus XDE Developer for VS.NET Plus
Supported IDEs					
Standalone IDEs (not Eclipse)	R	R	R	R	R
WebSphere Workbench (included)			X		X
Integrates with WebSphere Studio Application Developer and Integration Editions 5.0			X		X
Integrates with Eclipse 2.0	X	X	X		X
Microsoft Visual Studio .NET 7.1				X	X
Microsoft Visual Studio 6				R	R
Microsoft Visual Studio7				X	X
Diagrams					
Free-Form	X	X	X	X	X
Class, Component, Deployment, Sequence, Statechart, Use Case	XR	XR	XR	XR	XR
Collaboration	R	R	R	R	R
Physical Storage / Deployment			X	X	X
Physical Data / Tables			XR	XR	XR
Domains - Windows					
UML 1.3	R	R	R	R	R
UML 1.4	X	X	X	X	X
Data Modeling		XR	XR	XR	XR
C#, VB .NET, ASP.NET				X	X
Managed/Unmanaged C++				X	X
Visual C++ 6.0				R	R
ANSI C++					XR
J2SE, J2EE			XR		XR
JSP			XR		XR
Ada, CORBA IDL and MIDL, XML DTD					R
Model-Driven Development					
Reusable Asset Specification	X	X	X	X	X
Pattern Engine	X	X	XR	XR	XR
Database Design Patterns		X	X	X	X
GOF Patterns			XR	XR	XR
Code Template Engine			X	X	X
Assisted Modeling		X	X	X	X
Unlimited Undo	X	X	X	X	X
Build and Deployment					
J2EE deployment			XR		XR
Runtime Analysis and Testing					
Memory Leak detection					P
Runtime Visual Trace - Sequence Diags					X
Rational Quality Architect					R
Team Support					
Multi-Model support	X	X	X	X	X
Merge Changes	XR	XR	XR	XR	XR
Repository / CM	XR	XR	XR	XR	XR
Documentation / Reporting					
SoDA Integration	XR	XR	XR	XR	XR
Print Diagrams	XR	XR	XR	XR	XR
Web Publishing and Report Generation	XR	XR	XR	XR	XR
Process Guidance					
RUP Config for Java & C++			RUP		RUP
RUP Config for .NET				RUP	RUP

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SPECIFICATIONS

Hardware and Software Requirements

Operating System
- *Windows NT 4.0 Workstation, Service Pack 6a*
- *Windows 2000 Professional, Service Pack 2 or Service Pack 3 (Recommend: Service Pack 2)*
- *Windows 2000 Server and Advanced Server, Service Pack 2*
- *Windows XP Professional*

Supported IDEs
- *Eclipse Java platform IDE*
- *IBM Websphere Studio Application Developer 5.0*
- *IBM Websphere Studio Application Developer Integration Edition 5.0*
- *Microsoft Visual Studio .NET 7.1*

Processor
- *450 MHz PII*
- *Recommend: 700 MHz*

Available RAM
- *Minimum: 256 MB minimum for Rose, or 512 MB for XDE*
- *Recommend: 512 MB for Rose, or 1 GB or more for XDE*

Available Disk Space
- *400 MB installation directory per product*
- *50 MB workspace*
- *Recommend: 2-4 GB*

Configuration Management
Supports ClearCase 4.2, ClearCase 2002.05.00, ClearCase LT 2001A.04.00, ClearCase LT 2002.05.00. Microsoft Visual SourceSafe 6.0c. Supports the SCC interface.

EJB and Web Modeling and Deployment Platforms
- *BEAWebLogic 6.1, 7.0*
- *IBM WebSphere 5.0*
- *Sun J2EE Reference Implementation 1.3*
- *Web Server (Apache) 1.3*

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