Rational software

IBM

IBM® Rational Suite® DevelopmentStudio

Highlights

■ *Model-driven development with UML*

■ *Round-trip engineering synchronizes your models with your code*

■ *Gang of Four (GoF) patterns support facilitates architectural- and design-level reuse*

■ *Runtime error detection pinpoints hard to find bugs*

■ *Application performance profiling highlights performance bottlenecks*

■ *Code coverage analysis helps you avoid delivering untested code*

■ *Requirements management helps you control project scope creep*

■ *Software configuration management versions all types of software artifacts*

■ *Change request management automates creation and workflow of defects and other types of change requests*

IBM Rational Suite DevelopmentStudio brings together Rational's award-winning development tools into one very powerful package, enabling your team to build better software faster. It lets you design and model your software, then find and eliminate runtime errors, memory leaks and performance issues. It also facilitates team communication with tools for defect tracking, requirements management, change control, and development process guidance. Harness the power of a complete lifecycle solution with Rational Suite DevelopmentStudio and maximize your development productivity.

Model with the industry leader

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, Rational Suite DevelopmentStudio includes IBM Rational Rose® Enterprise, the industry-leading and award-winning visual modeling and development tool. The International Data Corporation (IDC) recognizes Rational Software as the industry's leader for Analysis, Modeling, and Design (AMD) tools.

Only Rational combines thought leadership and market-leading tools for helping apply the UML successfully to your software development efforts.

Develop solid code faster

Rational's development solution doesn't get in your way. It actually helps you write better code faster. Rational Rose Enterprise Edition includes a feature called IBM Rational® Quality Architect that allows you to visually construct component test procedures. This allows you to test your software components directly in your model, long before system integration. IBM Rational Suite® DevelopmentStudio® also includes IBM Rational® PurifyPlus, a set of runtime analysis tools that detects memory errors, highlights application performance bottlenecks, and identifies 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℠ (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 and provides convenient web-based training so that you need not leave your work environment. With the RDN, you'll never have to start a project from a blank slate—and that will help you write solid code faster.

Only Rational combines visual modeling, runtime analysis, and an extended developer community so that you can write higher quality code faster.

Make developing on a team easier
Rational Suite DevelopmentStudio includes Rational RequisitePro for creating, editing, viewing and managing ever-changing requirements.

Rational Rose provides web publishing and other reporting features to communicate your design to others inside or external to the project. IBM Rational ClearCase® LT is included to provide version control of all types of software artifacts. IBM Rational ClearQuest® is included for creating, managing, and reporting on defects and other types of change requests. All of these products are conveniently packaged in Rational Suite DevelopmentStudio, giving you a single, integrated solution for your team development needs.

And for iterative development process guidance, we include the IBM Rational Unified Process® (RUP®).
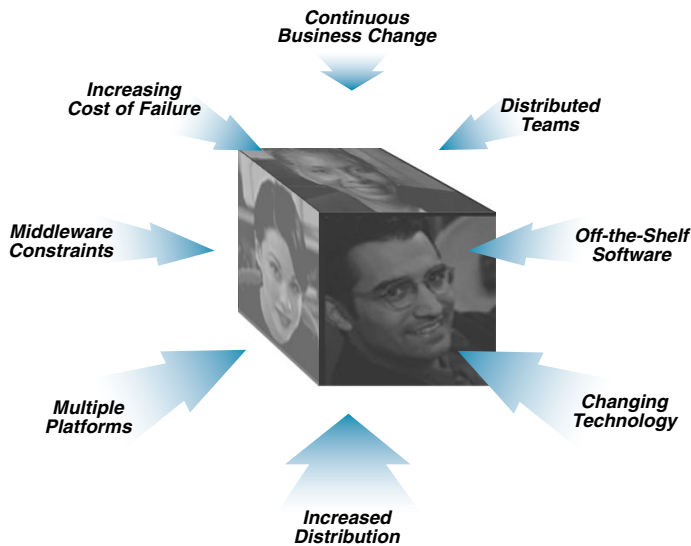
The RUP provides industry best practices and a configurable process framework for managing your development efforts. The RUP includes a special configuration for Java and .NET developers, and a special plug-in for Extreme Programming (XP) that offers lightweight best practices designed specifically for this development practice.

No one better equips you with tools and best practices for team development. Rational makes working on a development team easier – letting you build better software faster.

For more information, please go to http://www.rational.com/products/dstudio/ to learn more, view online demonstrations, and download/order a Solution CD.

Feature Summary for the Rational Suite Product Family
IBM Rational Suite® integrates the right set of market-leading tools from Rational's broad portfolio for accelerating high quality software development. Only Rational Suite provides an integrated solution for cross-functional teams that simplifies the process of acquiring, deploying, and supporting lifecycle software development.

Continuous Business Change

Increasing Cost of Failure

Distributed Teams

Middleware Constraints

Off-the-Shelf Software

Multiple Platforms

Changing Technology

Increased Distribution

Challenges facing software professionals today make it harder than ever to release high quality software on time and within budget.

Feature Summary

	Requirements & Analysis	Visual Modeling & Development	Automated Testing	Cross-Functional Solution
Solutions	RationalSuite AnalystStudio	RationalSuite Developemnt Studio	RationalSuite TestStudio	RationalSuite Enterprise Solution
Products				
Rational Rose	DM	E, RT, U		E
Rational PurifyPlus*		U	✓	✓
Rational QualityArchitect		E, RT		✓
Rational Robot			✓	✓
Rational Process Workbench				✓
Project Management				
Rational Unified Process	✓	✓	✓	✓
Rational RequisitePro	✓	✓	✓	✓
Rational ProjectConsole	✓	✓	✓	✓
Rational SoDA	✓	✓	✓	✓
Rational TestManager**	✓	✓	✓	✓
Software Configuration Management				
Rational ClearCase LT	✓	✓	✓	✓
Rational ClearQuest	✓	✓	✓	✓

All Rational Suite editions available in Windows. UNIX / Linux support denoted by 'U'

DM = Rose Data Modeler; E = Rose Enterprise; RT = Rose RealTime

* Includes IBM Rational® Purify®, IBM Rational® Quantify® and IBM Rational® PureCoverage®

** w/Load Testing

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SPECIFICATIONS

Hardware and Software Requirements

A Pentium-based PC compatible computer system

- *600 MHz PIII*
- *512 MB of RAM*
- *400 MB of disk space*

Operating System

- *Windows NT 4.0, Service Pack 6a and SRP(Security Rollup Package)*
- *Windows 2000 Professional, Service Pack 2 or Service Pack 3*
- *Windows XP Professional*

Supported Databases

- *IBM DB2 Universal Database 5.x, 6.x & 7.x*
- *IBM DB2 OS390 5.x & 6.x*
- *MS SQL Server 6.x & 7.x & 2000*
- *Oracle 7.x, 8.x, and 9.x*
- *Sybase System 12*

Note: To reverse engineer Oracle and DB2 databases using Rose, an RDMS client must be installed.

UNIX/Linux

System Requirements

- *512 MB of RAM*
- *400 MB of disk space*
- *Server: A midrange of UNIX server or client UNIX workstation (SparcStation 20 and above)*
- *Client: Any UNIX workstation or PC if running eXceed version 6.1 or higher to display X windows*
- *Display: X Window Color*

Display

- *Disk Space: 270 MB plus 1-3 MB per Rose model*

UNIX/Linux

Supported Platforms

- *Linux x86 (Red Hat 6.2, 7.0, 7.1)*
- *SUN Solaris 2.6, 2.7, 2.8, 2.9*
- *HP-UX 11.11i*
- *SGI IRIX 6.5.5*

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