The Rational Suite Product Family

Integrated Software Development Solutions for Cross-Functional Teams
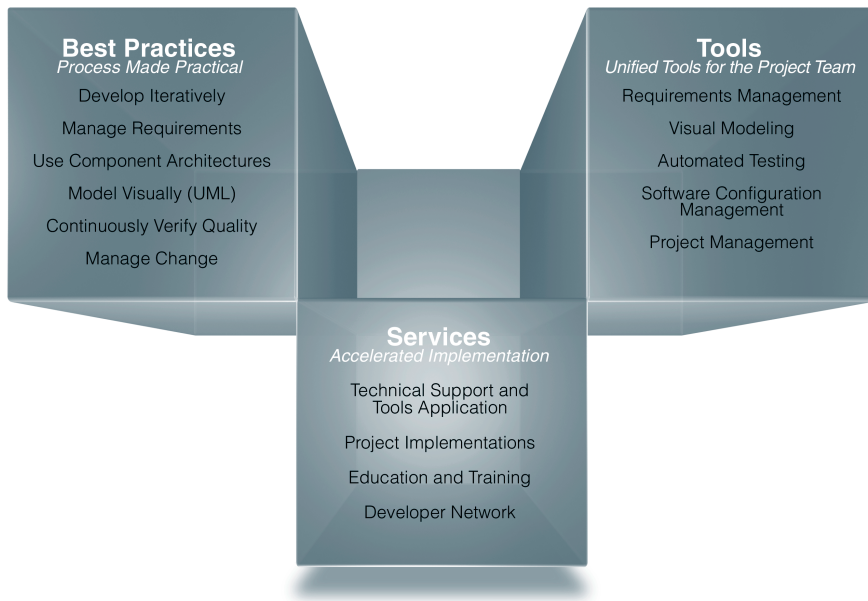
**Minimize Development Chaos.
Maximize Development Productivity.**

More and more, software development teams are finding that

chaos and unpredictability are dominating their projects and

their day-to-day schedules. The culprits that have historically

derailed development projects — changing requirements,

poor team communication, mismatched tools and ineffective

processes — are still around. But now, they are compounded

by shorter release cycles, increasingly complex applications,

and a business climate that has adopted a zero-tolerance

policy for low-quality software. Developing high quality soft-

ware on schedule has become the exception and not the rule.

The Rational Suite Product Family

Integrated Software Development Solutions for Cross-Functional Teams

Best Practices
Process Made Practical

Develop Iteratively

Manage Requirements

Use Component Architectures

Model Visually (UML)

Continuously Verify Quality

Manage Change

Tools
Unified Tools for the Project Team

Requirements Management

Visual Modeling

Automated Testing

Software Configuration Management

Project Management

Services
Accelerated Implementation

Technical Support and Tools Application

Project Implementations

Education and Training

Developer Network

Rational's Unique Software Development Solution
Rational's unique approach combines software engineering best practices, unified tools for the project team and services that accelerate implementation.

Best Practices, Tools and Services

Rational's full life cycle, team-based approach to software development combines time-tested software engineering best practices, industry-leading unified tools, and services that accelerate implementation. The Rational Suite® product family, combines popular, award-winning development tools, such as Rational Rose®, with the proven development practices of the Rational Unified Process® and a foundation of team unifying tools, including Rational ClearCase® LT. Together, these integrated products form a development platform that speeds software development, increases quality, and reduces risk. With Rational Suite, your days are less chaotic, your developers are more creative, and your entire development process is more predictable from project to project.

UNIFY. OPTIMIZE. SIMPLIFY.

Rational Suite

Rational Suite is a unique product family that helps you deliver high-quality software in less time. Integrating market-leading products from Rational's broad portfolio, only Rational Suite provides a complete solution that improves both individual and overall team productivity through improved collaboration.

Unifies the Team

Developing quality software is a team sport that requires groups of individuals with a wide variety of skills to work together towards a shared goal. Team and project success depends upon reliable communication and coordination as well as a practical process that can be easily applied by the entire team. Rational Suite is the only solution with a team-unifying platform that minimizes chaos by improving collaboration, team communication and software quality throughout the software development life cycle. Through seamless product integration, Rational Suite establishes open channels of communication and breaks through the walls that often separate different functional groups.

Optimized for Individual Productivity

Rational Suite is optimized to meet the unique demands of every phase of software development, including requirements and analysis, development and testing. Your software is built by diverse groups of people with a wide range of talents and specific needs — and Rational Suite provides a solution tailored just for them. Rational Suite maximizes developer productivity and creativity with solutions tailored for the unique demands of Microsoft®, Java™, UNIX and real-time development environments.

Rational®
the software development company

Simplifies Development

Developing software is a complex undertaking in the best of circumstances. By providing seamless integration with popular developer tools and environments, and immediate access to project information and priorities. Rational Suite simplifies the job of developing software. When everyone on your team can track requirements, enhancement requests, defect reports, test results and other crucial project data, risk and uncertainty are minimized and your entire development process becomes more predictable.

Rational Suite offers a single installation process and license. All Rational Suite tools are updated, integrated and released together, so your development team spends less time maintaining their development environment and more time developing software. With Rational Suite you eliminate all the hassles of managing mismatched tools from multiple vendors while saving time and lowering the total cost of ownership.

Rational Suite: Team and Individual Tools for the Entire Software Development Life Cycle

There is a Rational Suite product for each key development task throughout the life cycle — requirements and analysis, development, content management and testing. Rational Suite AnalystStudio®, Rational Suite DevelopmentStudio, Rational Suite DevelopmentStudio RealTime Edition, Rational Suite ContentStudio™ and Rational Suite TestStudio® combine a team-unifying foundation with tools designed specifically for each functional area.

For project leaders and anyone who requires a full set of integrated tools that span the entire software development process, there is Rational Suite Enterprise — Rational's most comprehensive solution — which combines all the tools of Rational Suite AnalystStudio, Rational Suite DevelopmentStudio and Rational Suite TestStudio.

Rational Suite AnalystStudio

Analyzing your problem space — business needs, user issues, market opportunities — and defining a solution to solve them are complex undertakings. Without attention to requirements and analysis, you run the risk of developing an off-target product, missing a critical window of opportunity, or being overrun by the competition. Rational Suite AnalystStudio provides a variety of tools and techniques that help you solve the right problem and define the right solution. Rational Suite AnalystStudio connects business, application and data modelers by providing one visual modeling solution — based on the Unified Modeling Language (UML) — that manages the various models collectively. It provides the industry's most comprehensive support for use cases ensuring your solution is designed and deployed with the user in mind. And Rational Suite AnalystStudio combines the search, prioritization, and management power of a database with the freedom of requirements documents in Microsoft Word® for effective requirements management.

Features tools for requirements and analysis:

Rational Rose Professional Data Modeler Edition, Rational RequisitePro®, Rational ClearQuest®, Rational ClearCase LT, and the other Team Unifying Platform tools.

Rational Suite DevelopmentStudio

Your team needs to build better software faster, and Rational Suite DevelopmentStudio brings together Rational's award-winning development tools to help you get the job done. Rational Rose, the world's leading model-driven development tool gives you the power to communicate more effectively by using one tool and one notation — the Unified Modeling Language. And, you can even use Rose models to develop test cases before you ever write code. Rational Suite DevelopmentStudio's easy-to-use diagnostic tools ensure quality throughout the project by automatically pinpointing hard-to-find bugs, highlighting performance bottlenecks and identifying untested code. Built by developers for developers, Rational Suite DevelopmentStudio gives you the tools and technologies your team needs to succeed. Available in Windows, UNIX and RealTime editions.

Features tools for software development:

Rational Rose Enterprise Edition, Rational QualityArchitect, Rational Purify®, Rational Quantify®, Rational PureCoverage® and the Team Unifying Platform.

We saw our development cycle go from roughly three years to about three months to get the initial Beta prototype out, and about a month or two of stabilization work to get it to the customer. That's a tremendous return on investment. And it factored largely into our management's decision to go with Rational for a complete solution to our engineering environment.

- Yon Sheldon, CM Architect, Credence Systems

Rational Suite ContentStudio

If your business is like most, your Web sites are fast becoming your strategic channel for interacting with customers, employees and partners as well as gathering and managing the business knowledge you need to compete. This means the responsiveness and reliability of your Web site is paramount to your success. To build and evolve high-performance sites, you need a reliable infrastructure for efficiently managing content and code. Rational Suite ContentStudio enables Web and IT teams to manage today's increasingly complex sites. Now your content experts can directly manage content while your Web team focuses on development of your key applications. And you can quickly deploy any site change — code, content, or any combination of Web assets. By integrating common tools and processes in a single, powerful solution, Rational Suite ContentStudio unifies the activities of extended Web teams.

Features tools for Web content management:

Rational ClearCase LT, Rational ClearQuest, Rational RequisitePro, Rational Unified Process, Content Management services, Management Server and the other Team Unifying Platform tools.

Rational Suite TestStudio

In a successful, predictable development process, testing is not an afterthought. Rational Suite TestStudio increases the effectiveness of your testing resources, while improving development productivity. By integrating automated testing into development, you can find and fix defects in each iteration, long before your project nears release.

Rational Suite TestStudio is a suite of performance, reliability and functional testing tools integrated with Rational TestManager – an open, extensible management tool. Your testers can plan, design, implement, execute and evaluate tests anywhere in the life cycle – and developers can easily reproduce any problems found by your testing team. In addition, Rational Suite TestStudio's impact analysis capability helps testers readily understand the effect of development changes on testing efforts. Rational makes it easier to achieve software quality, while staying on schedule.

Features tools for system testing:

Rational Robot, Rational TestFactory®, Rational Purify, Rational Quantify, Rational PureCoverage, Rational TestManager and the other Team Unifying Platform tools. Rational also offers a complete life cycle tool for testing during embedded real-time development: Rational Test RealTime.

Team Unifying Platform

As an integral part of every member of the Rational Suite family, the Team Unifying Platform provides a foundation for effective communication, collaboration and testing throughout development.

With this unique foundation of tools and resources you can improve team collaboration, manage change effectively across the entire development life cycle, and ensure quality from requirements to release. Rational's Team Unifying Platform automates the flow of mission critical information, enabling you to leverage the efforts of early stage development again and again throughout your entire process.

The Rational Suite Team Unifying Platform includes:

Rational Unified Process, or RUP®, is a web-enabled set of industry-proven best practices that provides your team with the framework to implement flexible software processes in your development environment. RUP supports both small and large projects — from informal, to web-based and mission critical. RUP unifies your team, helping them achieve more predictable results with a common process that increases communication and creates a common understanding of all tasks, responsibilities, and artifacts. RUP provides the expertise you need to steer your projects around the common pitfalls of software development and leverage new technology and tools through customized content plug-ins and tool mentors.

Rational ClearCase LT enables software teams to effectively organize, store, access, and maintain all of their development assets. It allows your team to maximize productivity by managing all of your requirements, models, code and test scripts with a single process, and a single version control tool. Rational ClearCase LT supports Unified Change Management, Rational's "best practices" approach for controlling workflow and managing change at the activity level. Also, as your team and software artifacts evolve over time, you can easily upgrade to Rational ClearCase or Rational ClearCase MultiSite®.

Rational TestManager gives your team a single, shared tool to manage and control all testing activities. This open and extensible environment can be used to control all test assets — not just those created with Rational tools. Rational TestManager enables everyone on the team to plan, manage and execute tests, and measure progress against the test plan by assessing test execution. By offering access to the testing process to everyone, you can make quality the focus and responsibility of your entire team throughout the project, not just testers at the end of the project.

Rational RequisitePro embeds requirements management into your software development life cycle, ensuring that everyone on the team shares a common vision of the project goals. With it you can leverage the combined power of a database and the freedom of Microsoft Word. Powerful traceability features link related requirements so you can fully understand the impact of change. And, through tool integrations, requirements are made accessible to guide and define system architecture, testing and documentation activities.

Rational ClearQuest is a flexible defect and change tracking tool that captures, tracks and manages all types of change submitted by anyone on your team providing a clear understanding of the current state of software quality. Seamless integration with other Rational development solutions, including configuration management, automated testing and requirements management tools, ensures that all members of your team are tied into the defect and change tracking process. Based on the proven technology in Rational ClearCase MultiSite, ClearQuest MultiSite is an optional add-on solution for Rational ClearQuest that supports synchronized development efforts across geographically distributed sites.
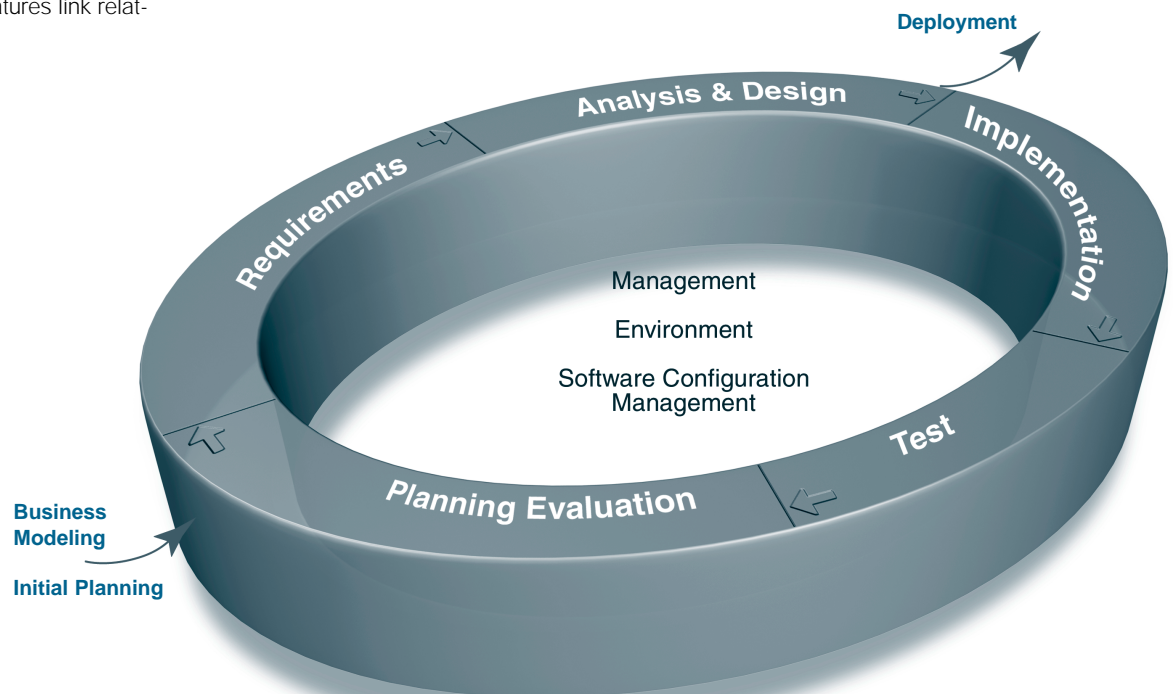
Rational ProjectConsole makes it easy to monitor the status of your development projects, and utilize objective metrics to improve project predictability. Rational ProjectConsole greatly simplifies the process of gathering metrics and reporting project status by creating a project metrics Web site based on data collected from your development environment. This Web site, which Rational ProjectConsole updates on demand or on schedule, gives all team members complete, up-to-date view of your project environment. Rational ProjectConsole collects metrics from your Rational Suite development platform and from third-party products, and presents the results graphically in a customizable format to help you accurately assess progress and quality.

Rational SoDA® automates the generation and maintenance of comprehensive project documentation and reports, easing the distribution and communication of vital project information. Rational SoDA unites information from a variety of artifacts and repositories in Rational Suite: visual models, requirements, change request and defect information, source code, test results and more, into cohesive, complete project documentation and reports.

Features tools to improve team collaboration and productivity:

Rational ClearCase LT, Rational TestManager, Rational RequisitePro, Rational ClearQuest, Rational ProjectConsole, Rational Unified Process, and Rational SoDA.

Rational Alliances: Extending Your Options

When Rational solutions are combined with the complementary products and services of over 500 alliances, customers are afforded the most comprehensive development environment available today. Rational's alliances with IBM, Microsoft, Sun Microsystems, HP, Intel, BEA and Borland, ensure broad product compatibility and a smooth transition to rapidly changing technologies. Long-lasting relationships with industry leaders strengthen and deepen Rational Suite's support for technology initiatives like Microsoft .NET and J2EE (Java 2 Platform, Enterprise Edition).

Rational's alliances help ensure seamless integration and operation of Rational's products with leading solutions from other companies.

Accelerate Implementation

Rational Services are an integral part of Rational's complete software development solution of tools, services and best practices. Rational Services can help your organization achieve a lasting competitive advantage, by laying the foundation for continuous improvement in software development speed and quality. Rational has acquired substantial knowledge and experience in helping development organizations achieve their goals. That knowledge is embodied in the Rational Developer

Network^{sm} — a resource that provides the services, training and support needed to accelerate your implementation. Rational.net provides immediate access to Rational's expertise with white papers, articles, artifacts, web-based training, best practices, and topical discussions relevant to the worldwide Rational community.

In addition to the Rational Developer Network, Rational offers an array of other services including training, consulting, packaged services, and of course, technical support. Training through Rational University builds your software development expertise with a full life cycle curriculum offered via web or in person with our experienced instructors. A wide range of consulting services is available from small mentoring assignments to large-scale collaborative projects to integrate and deploy a complete life cycle development environment. Packaged services offer an off-the-shelf, low risk implementation solution to speed tool adoption in any organization. Rational Technical Support makes finding the answers simple by providing online support, a customer-only website, and one support number to call anytime. And Rational's software environment experts are available to collaborate with your domain experts — so you can find the right mixture of process, tools, and services to quickly transfer knowledge to your team and achieve your business goals.

About Rational Software Corporation

Rational Software provides a software development platform that improves the speed, quality, and predictability of software projects. This integrated, full life-cycle solution combines software engineering best practices, market-leading tools, and professional services. Ninety-six of the Fortune 100 rely on Rational tools and services to build better software, faster. This open platform is extended by partners who provide more than 500 complementary products and services. Founded in 1981, Rational is one of the world's largest software companies, with revenues of $751.4 million in its twelve months ended December 31, 2001, and over 3,700 employees worldwide. Rational is a component of the Nasdaq-100 Index®. Additional information is available on the Internet at www.rational.com.

Rational success stories and video clips are available at **www.rational.com/success**.

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