IBM

Rational software

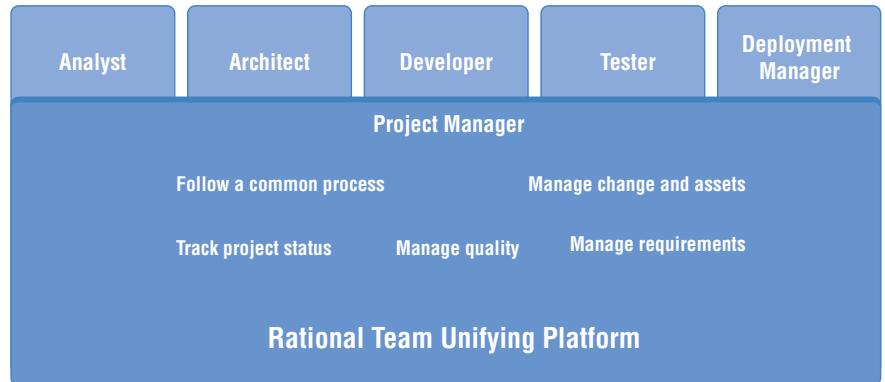# IBM Rational Team Unifying Platform

■ *Supports comprehensive team development*

■ *Provides a proven, configurable process*

■ *Manages assets from requirements to code*

■ *Enables traceability across the application lifecycle*

■ *Provides results-based project dashboard and reporting*

■ *Scales for teams of any size*

■ *Offers an open platform with tight integration to popular IDEs and third-party tools*

Analyst	Architect	Developer	Tester	Deployment Manager

Project Manager

Follow a common process   Manage change and assets

Track project status   Manage quality   Manage requirements

Rational Team Unifying Platform

The Rational Team Unifying Platform solution manages activities and assets across the development lifecycle.

The IBM Rational® Team Unifying Platform™ product provides your team with the integrated infrastructure, tools and processes they need to collaborate on the delivery of software-based solutions. As the core foundation of the IBM Rational Software Development Platform package, the Rational Team Unifying Platform solution links your business requirements with your development objectives to help you accelerate your software development capability.

ON **DEMAND BUSINESS**™

The Rational Team Unifying Platform offering not only streamlines communication, it also helps to enforce processes so that you can maintain project momentum and focus. It simplifies and automates change management so individuals and teams can quickly see the impact of change. Using the Rational Team Unifying Platform solution across the lifecycle of application development can help you capture, prioritize and track activities, and manage all your development assets. Whether your team is colocated or globally distributed, you can combine the benefits of small-team collaboration with the ability to leverage key talent across the enterprise.

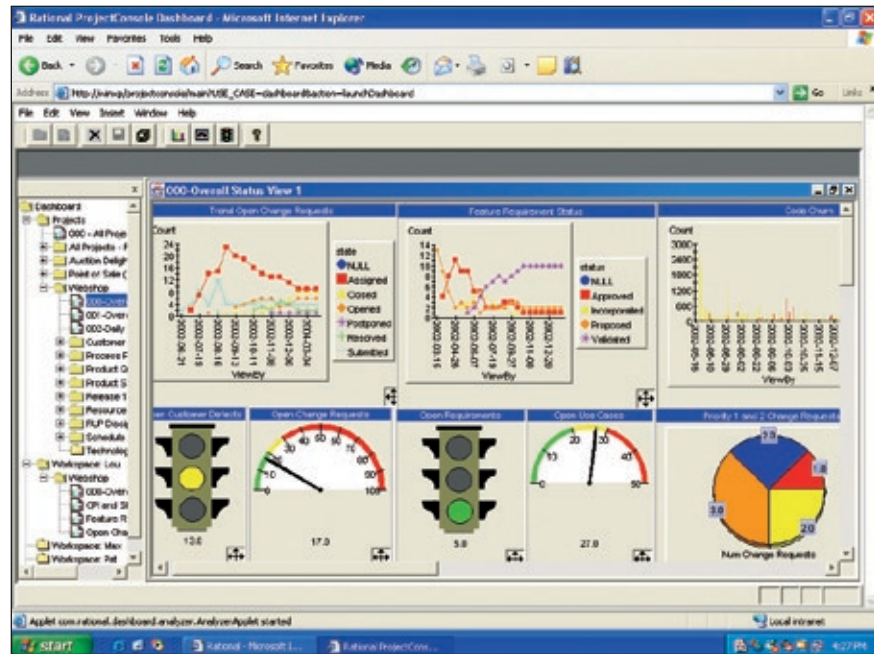**Improve individual and team productivity**

Every member of your team contributes a special set of skills and also has specific needs. Analysts, architects, developers, testers and project managers using the Rational Team Unifying Platform product can see their contributions in the context of broader business goals and project objectives. Individuals can work in their preferred environment, whether using the Web, e-mail, an office application or an integrated development environment (IDE). This open and standards-based approach to team development can help increase individual satisfaction while reducing the risks associated with building, integrating and extending complex systems and software.

Accelerate development and reduce downtime

Change is constant. The speed at which you can respond to and manage that change can be the difference between project success and failure. The Rational Team Unifying Platform solution uses activity-based change management to link project activities with related assets. Since most changes affect more than a single file and frequently involve more than one team member, it is critical to have this level of abstraction to monitor and understand the impact of a given change on the system, application or product being built. In addition, comprehensive reporting and a project dashboard provide immediate access to information ranging from high-priority status reports to project trends so you can proactively resolve potential bottlenecks and align team resources.

Improve team collaboration with proven process guidance

IBM Rational Method Composer software includes and extends the IBM Rational Unified Process®—or IBM RUP®—methodology, and is a flexible process framework built on top of the Eclipse Process Framework platform. It adds new best practices to the RUP methodology that leverage IBM's expertise in portfolio management, collaborative distributed development and service-oriented architectures (SOAs). It provides new, open-source process customization tools that will tightly link business and IT activities, enabling teams across an organization to collaborate more effectively, reduce software project failures, and save time and money.

The ProjectConsole dashboard provides authorized team members and stakeholders with easy access to a single view of relevant project status and trends.

One of the central best practices of the RUP methodology is the notion of developing iteratively. The RUP platform organizes projects in terms of disciplines and phases, each consisting of one or more iterations. Developing iteratively involves all the development disciplines across the project and helps you address risk early and continuously with demonstrable progress and frequent executable releases.

With industry-proven software engineering best practices at its core, the RUP solution includes tools for configuring the process to meet your project's specific needs. You also can easily incorporate internal knowledge into process components to quickly distribute your process through powerful and customizable Web-based deployment tools.

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IBM Rational Team Unifying Platform capabilities

The IBM Rational Team Unifying Platform package comprises the following capabilities and supporting tools:

Context-specific process guidance

Using the IBM Rational Unified Process solution, you can design, modify and deploy process guidance to your team. Those team members, in turn, can directly access specific project guidance either from your RUP project Web site or directly from the tool itself. Tool mentors and templates, available in the RUP repository, describe how to perform a specific activity or develop a specific artifact. You can also quickly access RUP product-based guidance without leaving the tool environment via the Extended Help feature. For example, an analyst can define a system and related use cases using the RUP requirements guidance provided inside IBM Rational RequisitePro® software.

Integrated requirements management

By capturing requirements specified in Microsoft® Word documents in a database, Rational RequisitePro software enables you to organize, communicate and control requirements and related changes across your team. You can organize, sort, filter and track the requirements contained within Word documents as well as version and baseline those requirements. For example, requirements can be linked to test cases so that the impact of change is seen immediately when requirements change. Rather than discovering changes through trial and error, team members can be notified automatically when a given requirements change affects deliverables.

Change tracking, traceability and workflow

Whether implementing a new requirement, a fix to an existing application or an error discovered after release, the trigger for any change must be managed. IBM Rational ClearQuest® software provides defect and change tracking, uses workflow to manage activities and monitor status, has easy-to-use reporting capabilities and provides e-mail notification options.

Through the Rational Team Unifying Platform solution, Rational ClearQuest software can help manage activities across the application lifecycle.

Version control with distributed team support

Versioning of development assets is key to fast release cycles. The Rational Team Unifying Platform solution provides version control and change management for small and medium-sized teams. For larger teams or for distributed development activities, you can combine the Rational Team Unifying Platform offering with IBM Rational ClearCase® software for complete software configuration management (SCM). This is supported by a seamless upgrade from the included IBM Rational ClearCase LT software (providing single-server version control purchased separately) to the full version of the Rational ClearCase software.

Rational SCM capabilities extend basic version control by providing integrated activity-based change management, asset management, build management, mainframe development support and multiserver support. For globally distributed teams, options are available that provide replication and synchronization across sites. Rational SCM products enable you to manage all assets, including visual models, documentation, source code and testing assets. And your development team can access all these SCM capabilities from within popular IDEs, including IBM WebSphere® Studio, IBM Rational Application Developer, Microsoft Visual Studio and Microsoft .NET software, as well as the open-source Eclipse framework.

Project measurement and dashboard
The IBM Rational ProjectConsole™ feature draws on objective data to help improve project predictability, making it easy to monitor project status. Team members no longer need to manually update status—an error-prone and subjective process. The ProjectConsole feature automates reporting of project status, dynamically creating a project Web site with a graphical dashboard based on data you collect. It collects both standard and custom metrics from your IBM Rational and third-party products, presenting the results graphically so that you can easily assess project progress and quality.

The ProjectConsole client add-on provides a license to access, use and update the ProjectConsole feature-generated Web site. It provides convenient access to vital project status information to extended team members, senior management and other stakeholders who may not regularly use IBM Rational tools.

Integrated test management
The IBM Rational TestManager feature provides test activity management, execution and reporting. Built for extensibility, it can manage activities ranging from pure manual test approaches to automated paradigms such as unit testing, functional regression testing and performance testing. You can establish traceable relationships among assets, such as requirements, tests and defect reports, so that team members can quickly see the impact of a given change and respond appropriately. Even extended team members can use the TestManager feature, bringing visibility to test progress, error trends and application readiness.

Project documentation management
IBM Rational SoDA® software automates the generation and maintenance of comprehensive project documentation and reports, easing the distribution and communication of vital project information.

Complete lifecycle support

The IBM Rational Team Unifying Platform solution helps all members of the team to control their own work and collaborate effectively. Business analysts can build requirements and adjust those requirements as the business changes. The quality team can plan, design, implement, execute and analyze tests from a single, extensible platform. Virtually anytime, anywhere, team members can get status updates, be notified of actions needed, and access reports to evaluate trends and progress. Developers, within the convenience of their pre-ferred IDE, can track changes, reuse components, and build and release applications using integrated SCM capabilities. And throughout the life-cycle of your projects, the Rational Team Unifying Platform solution pro-vides objective status information based on actual results and presents that information in an easy-to-understand dashboard format.

Using the Rational Team Unifying Platform solution, you and your team spend less time assembling and com-municating project information while spending more time delivering better software — faster.

Specifications*

Client requirements (for the complete Rational Team Unifying Platform solution)

Microsoft Windows®: 600MHz Intel® Pentium® 3, 512MB RAM, 1GB free disk space, CD-ROM drive

UNIX®: 400MHz, 512MB RAM, 400MB free disk space, CD-ROM drive

Server requirements

Microsoft Windows: 600MHz Intel Pentium 3, 512MB RAM, 1GB free disk space, CD-ROM drive

UNIX: 400MHz, 512MB RAM, 400MB free disk space, CD-ROM drive

Databases

IBM DB2®
Oracle
Microsoft SQL Server

Operating systems

Microsoft Windows: Microsoft Windows NT®, 2000, XP, Server 2003

UNIX: Sun Microsystems Sun Solaris, HP-UX, IBM AIX®, Red Hat Linux®, SUSE Linux

Browsers

Microsoft Internet Explorer

Netscape Navigator

* Note: This table provides an overall summary specification for the Rational Team Unifying Platform solution. Components and features available vary by platform. Some features are available on additional platforms not listed above.

IBM Rational services

The IBM Rational solution combines software engineering best practices, market-leading tools and comprehensive services to drive continual improvement in team capability. Our services are designed to help you build team skills, reduce the time to productivity when implementing a new solution, and maximize the return on your investment in IBM Rational tools.

- *IBM developerWorks®:Rational services are the key technical resource for the community using IBM Rational tools and best practices.*
- *IBM Rational software training offers a flexible, cost-effective curriculum that covers the full development lifecycle. Gain a foundation and prerequisite knowledge through our library of online Web-based training (WBT) courses, and then extend that knowledge with in-depth instructor-led classroom courses.*

- *The IBM Rational software worldwide staff of qualified professional services consultants uses years of experience to help you lay a foundation for successful software projects or to accelerate any phase of your project. In addition to custom consulting and mentoring, IBM Rational services offer several types of packaged service offerings, including assessment services, deployment services and collaborative workshops.*
- *Worldwide IBM Technical Support services help to ensure that your project keeps moving forward with the help you need, when you need it. Our maintenance programs offer efficient support via telephone and/or electronic access, as well as up-to-date access to the latest Rational software releases.*

IBM Rational software

Rational software from IBM helps organizations automate and integrate the core business process of software development. Rational products, services and best practices power the IBM Rational Software Development Platform environment, the premier platform for teams that discover, develop and deploy software assets in business applications, embedded systems and software products. This modular and complete solution enables teams to adopt a business-driven development approach based on open standards, including the Eclipse open-source framework. The result is differentiated business performance.

For more information

For additional information, please visit the monthly electronic magazine for the Rational community at:

ibm.com/rational and ibm.com/ developerworks/rational/rationaledge

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