Rational
Unified Process

Process Made Practical

Every development team shares a common mission: to develop quality software that is delivered on time and on budget, meets current business requirements, and is scaleable to future needs. But without a clear, repeatable process to guide team members through each phase of the development project, such goals are virtually unobtainable. Results fall short and are unpredictable; testing is tedious and expensive, and serious flaws are discovered late in the project. The resulting product is difficult to maintain and extend, and is often a poor fit to the user's real needs.

The Rational Unified Process™ (RUP) is a Web-enabled software engineering process that enhances team productivity and delivers software best practices to all team members. This e-coach™ is an easy-to-use online mentor which makes process practical by providing extensive guidelines, templates, and examples for all critical e-development activities. RUP also includes e-business specific extensions that provide explicit guidance in areas such as business modeling, Web architectures and testing for the Web. RUP is a customizable framework, that is easily adapted to the way you work. It is tightly integrated with Rational tools, allowing development team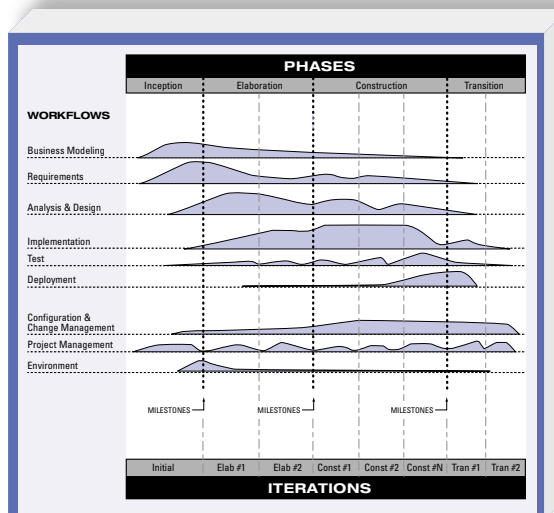s to gain the full benefits of Rational product features, the Unified Modeling Language (UML), and other industry best practices.

The RUP product also includes a process variant specifically targeting companies building e-business applications using Rational and IBM technologies. This variant, "RUP with IBM extensions for e-business", has been jointly developed with IBM, and extends RUP with additional content addressing e-business application architectures, e-business security, and deployment of e-business applications.

The Rational Unified Process can be adopted to small or large projects, and is used to develop applications of all types, including e-business, e-infrastructure, and e-device markets.

A Team-Unifying Approach

The Rational Unified Process unifies the entire software development team by providing a customizable framework of best practices for the full lifecycle. By unifying best practices from many disciplines such as project management, business modeling, requirements management, analysis and design, testing, and change control into one consistent, full lifecycle process, the Rational Unified Process promotes a common vision and culture throughout your development organization. This facilitates team communication,

▶ *The Rational Unified Process organizes projects in terms of workflows and phases, each consisting of one or more iterations. With the iterative approach, the emphasis of each workflow will vary throughout the lifecycle. Milestones enable management to assess progress.*

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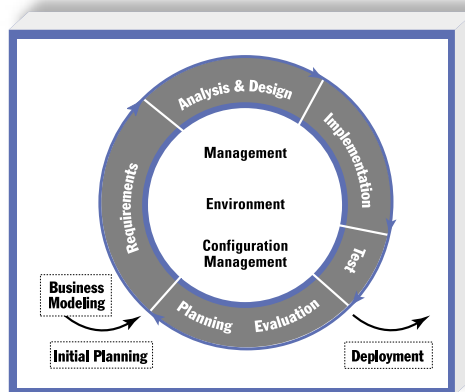
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a critical factor in the success of any project, allowing development teams to decrease time to market while increasing the predictability of the software they produce.

Industry-Proven Best Practices

The Rational Unified Process enhances the productivity of every team member by putting experience derived from thousands of projects and many industry leaders at your fingertips. The Rational Unified Process was developed hand-in hand with the industry-standard UML, created by Rational® Software with the help of many of our partners.

The Rational Unified Process provides each team member with extensive guidelines for successful implementation of the six best practices that enable efficient development of high-quality enterprise applications:

- Develop iteratively to mitigate risk early in the project
- Effectively manage requirements
- Model visually to manage complexity
- Use component architectures to build resilient architectures
- Verify quality throughout the lifecycle
- Control changes to software

▶ *Each project iteration cycle begins with a plan for what will be accomplished and concludes with an evaluation of whether objectives have been met.*

A Process That Is Easy To Adopt

The Rational Unified Process is a customizable framework that can be adapted to the way you work. The process is made practical by providing an e-coach on each desktop. The e-coach is an easy-to-use online mentor that assists development teams in carrying out all daily activities. Presented via HTML format for universal, platform-independent access across a corporate intranet, the e-coach provides powerful graphical navigation capabilities that let users easily find productivity-enhancing software development guidelines and time-saving document templates for every step of the development project.

The Rational Unified Process helps organizations leverage the full capabilities of leading Rational development tools.

- Tool mentors describe how to use tools to successfully implement the process, ensuring that development teams effectively deploy these tools for the full software lifecycle.
- Extended Help provides context-sensitive help within Rational tools, making it easy to find immediate and relevant process guidance for the task at hand.

Rational Suite & Rational ClearCase — A Winning Combination

To implement a process effectively, you need tools and training. The Rational Unified Process is tightly integrated with Rational Suite™ and Rational ClearCase®. The Rational Suite family unifies individual members of the team into a productive, collaborative force by integrating market-leading tools into role-based suites. Rational ClearCase is the market-leading software configuration management product, tightly integrated with Rational Suite. The Rational Unified Process and Rational tools are supported by an extensive worldwide service and support organization which offers a role-based education and training curriculum for the full development lifecycle, as well as a variety of implementation and technical support services.