



Proven. Practical. Flexible.

Rational Unified Process

No two software development projects are alike. Even within an organization, project managers frequently lead multiple concurrent projects, with very different priorities, requirements, and technologies. Yet, with all these differences, there are constants. On every project, you want to minimize risk, ensure predictable results, and deliver high-quality software on time. Today's development teams require a practical development process that is both configurable — to handle a wide variety of projects, and time-tested — to ensure consistent success project after project.

The Rational Unified Process®, or RUP®, is a flexible software development process platform. Through its configurable architecture, RUP enables you to select and deploy only the process components you need for each stage of each project. With industry-proven software engineering best practices at its core, the RUP platform includes tools for configuring RUP for your project's specific needs, tools for developing your own internal knowledge into process components, powerful and customizable Web-based deployment tools, and an online community for exchanging best practices with peers and industry leaders. In this sense, RUP is at once a software development methodology framework, and a proven, flexible and practical process platform for successful software projects.

Industry-Proven Best Practices

Through years of experience working on thousands of successful projects with industry leaders, partners and customers, Rational has collected and honed a practical set of best practices, concepts, guidelines, templates, and examples that comprise the Rational Unified Process. No other methodology has been adopted as widely as RUP — from the largest global systems integrators to leading financial services organi-

zations, thousands of development teams worldwide rely on RUP to develop their business-critical software.

When used in combination, the best practices promoted by the RUP methodology — including Develop Iteratively, Manage Requirements, Use Component Architectures, Model Visually, Manage Change, and Continuously Verify Quality — strike at the root causes of software development problems, helping you avoid common pitfalls as you leverage new technologies and tools. By using a proven methodology and sharing a single comprehensive process, your team will be able to communicate more effectively and work more efficiently. No more "re-inventing the wheel" — project after project you'll see more predictable results as your team's confidence builds.

Process Made Practical

Software development guidance is available in many forms — books, articles, internal knowledge bases, and more. But, as experienced project managers know, reading about a software development process and actually applying it are two very different activities. The RUP platform provides practical guidance and serves as a valuable knowledge resource for the entire team, with templates, reusable assets, tool mentors, training and an online community. RUP helps you jump-start project

HIGHLIGHTS

Proven process adopted by thousands of projects worldwide

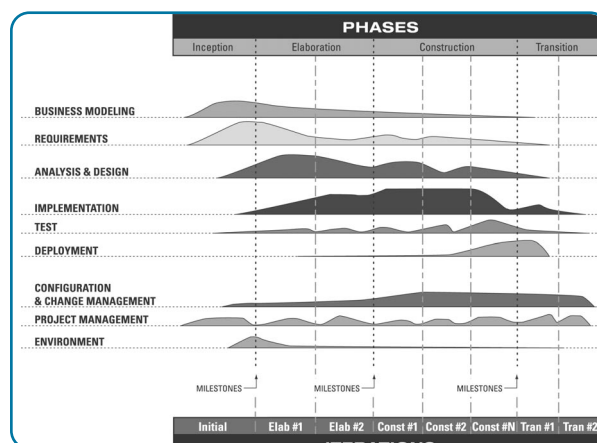
Common methodology facilitates team communication, improves project predictability, and helps you to better manage and mitigate risk

Artifact templates, tool help, an online user community, and more help you jump-start projects and put process into action

Personalized project views provide each team member the resources they need to stay focused on delivering working software

Easy-to-use configuration tools help you tailor your process for your projects

Flexible, scalable process makes your projects more responsive and resilient to change



Rational Unified Process organizes projects in terms of disciplines and phases, each consisting of one or more iterations. Each iteration concludes with an evaluation of whether objectives have been met. The iterative approach helps you to identify and address risk earlier in the project cycle.

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activities, get team members up to speed quickly, and bring your customized process to life for your real-world applications. Only RUP provides an unparalleled process library with practical guidance based on the type of project you are working on, the tools you are working with, or the development phase you are in. In addition, role-specific content, personalized project views, and online training allow you to provide each team member the guidance and resources they need, when they need them.

Adapts to your Project Needs

Because every project is unique, your process must be flexible and scalable, yet streamlined so your project team stays focused only on what is essential to completing the project successfully. Only the RUP platform architecture provides a configurable process framework that enables you to select and deploy the specific process components you need for the technology, tools, and development strategies your projects require.

Only RUP provides a complete process platform, including process Plug-Ins developed in cooperation with industry-leaders such as IBM, Microsoft, and BEA. With RUP Builder you can select and implement just the Plug-Ins that are necessary, while Rational Process Workbench® helps you model and develop your own knowledge assets into process Plug-Ins. The RUP platform provides a configurable process framework that enables you to deploy and use the right set of artifacts, activities and workflows to provide a consistent, yet customized process for each team and project — from small workgroups to large, enterprise initiatives.

The RUP Platform

The Rational Unified Process Methodology

The core of the RUP platform, the Rational Unified Process methodology, is complemented by a powerful set of tools and resources — including configuration tools, process authoring tools, process delivery tools and an extensive online community. This methodology unifies the entire software development team by providing proven best practices, valuable guidance, and a common process throughout the full development lifecycle. By combining best practices from many disciplines such as project management, business modeling, requirements management, analysis and design, testing, and change management into one consistent, comprehensive process, RUP promotes a common

vision and culture throughout your development organization. This shared process improves team communication, enabling development teams to collaborate effectively, work more efficiently, and decrease time to market. Using RUP's iterative approach to development, project managers can more accurately gauge progress by assessing key milestones at each iteration — increasing the predictability of the entire development effort.

Configuration Tools

Only the RUP platform provides a flexible process framework with powerful configuration tools to help you select and deploy a set of process components precisely tailored for your project. The platform architecture allows the base framework to be configured using RUP Builder and process Plug-Ins. RUP Builder combines RUP's core technology with the Plug-Ins you select to help you create your customized version of RUP.

In RUP, a Plug-In is a process component containing textual and graphical guidelines, examples and templates relevant for a specific technology, tool, or domain. This architecture enables you to easily configure the process for your project's specific needs. Plug-Ins also provide a mechanism for industry-leading companies to supplement RUP with content specific to their technologies — such as Microsoft's

"We have been practicing offshore development for more than ten years and we initially experienced communication and synchronization challenges across multi-site development teams that had to be dealt with to ensure project success. We identified the need for a structured technical communication solution. Today, our customized RUP process provides the strong basis we need for technical communication and it helps ensure successful offshore development."

Kirti Vaidya
Senior Director
Covansys



The RUP platform provides the methodology and tools you need to provide your team with customized, practical process guidance.

.NET, IBM's WebSphere, and many others. Other Plug-Ins are available for specific domains and technologies including eXtreme Programming (XP), business modeling, systems engineering, and more (a complete listing of Plug-Ins is available at www.rational.com/products/rup).

Three different RUP configurations are pre-loaded in RUP Builder, so whether your project is small, medium or large, the simple, four-step user interface helps you customize your process for your project. Once you have selected the size of your project and the set of Plug-In components you need, RUP Builder helps you quickly and easily deploy the this customized guidance to the team as a Web-based project view. What's more, you can develop and deploy custom project views so that each team member has both a consistent, shared view of the entire project, as well as custom views of the subset of activities and artifacts most relevant to them.

Process Authoring Tools

The Rational Process Workbench® tool helps you customize RUP for the precise requirements of your organization by leveraging your own expertise, practices, and internal knowledge. For basic customizations, the RUP Organizer feature within Rational Process Workbench allows you to simply drag and drop your own artifacts or process examples into your RUP configuration. The easy-to-use RUP Organizer interface helps you to develop and publish a RUP Plug-In to share with your team, your organization, or with the RUP community on Rational Developer NetworkSM. Instead of developing and maintaining separate internal knowledge bases or artifact repositories, RUP Organizer makes it easier than ever to manage and deploy custom process content within the RUP framework.

For teams wanting to develop significant process customizations, the RUP Modeler feature brings the powerful modeling capabilities of Rational® XDE™ to process engineering. You can drag and drop workflows, artifacts, and relationships to represent your development process visually. Once you have modeled your organization's custom development process, Rational Process Workbench lets you deploy the results as a custom RUP Plug-In.

Community/Marketplace

Rational Developer Network, or RDNSM, is a Web portal designed specifically for teams using Rational tools and best practices. RDN provides an active community and is a valuable resource to help you get started using RUP and other tools, build individual proficiency in RUP and iterative development, and adapt to changes in technology. Rational Developer Network offers current, practical information, articles, white papers, convenient Web-based training, and the expertise of an online community. It also serves as an exchange for ideas, best practices and reusable assets.

On this centralized web exchange, you'll find process components and RUP Plug-Ins from Rational Software, platform vendors, tool vendors and other domain experts. You can even post the RUP Plug-ins you develop to Rational Developer Network and share them with other development professionals.

Process Delivery Tools

The RUP platform includes a set of process delivery tools to help project managers deliver customized yet consistent process guidance to each team member, and to help shorten the learning curve when adopting RUP and Rational tools together.

Because RUP is accessed using any common Web browser, each team member has instant access to RUP's knowledge base and process guidelines from their desktop. Using MyRUP, each team member can personalize their project view with only the activities, artifacts, and other Web links they need to work most effectively. RUP also provides tool mentors to show you and your team how to implement Rational tools, providing a unique, integrated process and tool solution for your environment. In addition, everyone has easy access to context-specific process guidance from within all Rational products via extended help. This capability places a wealth of knowledge and practical expertise at the fingertips of each project team member at all times.

"It is very important to Sears' management to reduce the time it takes to deliver a software product to the user. While many factors contribute to time to market, by implementing the Rational Unified Process you can begin to get the consistent, repeatable processes throughout your company that ultimately result in reduced software product delivery time."

John Morrison
Solutions Consultant
Sears

Accelerate Success with Rational Services

Like all Rational tools, the Rational Unified Process is supported by a worldwide services organization that combines extensive online resources with personalized training, consulting, and technical support.

- Rational Developer Network helps you learn and use Rational tools and methodologies through online access to training, articles, whitepapers, documentation, scripts, discussion forums, and more.
- Rational University courses are available over the Web, on-site at your organization, or at dozens of classroom locations worldwide.
- Professional Services – including Assessments, QuickStarts, Deployment, and Custom Consulting and Mentoring Services offer proven pathways to efficient technology adoption.
- Technical Support provides efficient problem resolution and up-to-date access to Rational's latest software releases.

About Rational Software Corporation

Rational Software provides a software development platform that improves the speed, quality, and predictability of software projects. This integrated, full lifecycle solution combines software engineering best practices, market-leading tools, and professional services. Ninety-eight 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 \$666.4 million in its twelve months ended June 30, 2002, and over 3,500 employees worldwide. Rational is a member of the S&P 500 Index and a component of the Nasdaq-100 Index®. Additional information is available at www.rational.com and www.therationaledge.com, the monthly e-zine for the Rational community.

RUP Specifications

System Recommendations

- Microsoft Windows XP Professional, 2000, NT 4.0
- Solaris 2.6, 7-9 and HP UX 11.11
- Linux (Redhat 6.1) System Requirements
- Microsoft Internet Explorer 5.5 or 6
- Netscape Navigator 4.72-4.78, 7.0
- Mozilla 1.0

Memory

- 128 MB minimum (256 recommended)

Disk Space

- 150 MB minimum

LAN Support

- Any Windows or UNIX supported network

Rational Process Workbench Specifications

System Requirements:

- Microsoft Windows XP Professional and 2000
- System requirements should correspond with the version of Rational XDE being used
- 450 MHz Pentium II PC compatible computer system (700MHz PIII recommended)
- 256 MB RAM (512 MB recommended)
- 450 MB minimum free disk space for XDE and RPW (workspace requirements vary by model size)

Supporting Software:

- Rational XDE 2003A
- HTML editor for content editing

Optional Software:

- Rational ClearCase for configuration management

Rational Software

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