

## IBM Rational Professional Bundle

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### Highlights

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- **One bundle of desktop tools with one license and maintenance agreement**
- **Flexible licensing to meet your needs**
- **Develop and test applications more productively than ever**
- **Optimized for IBM middleware**
- **Integral part of the IBM Software Development Platform**
- **Capabilities for the Developer**
  - **Web and rich client rapid application development**
  - **Easy transition from mainframe to J2EE development**
  - **Productive J2EE/EJB tooling**
  - **Portal/Portlet development tools**
  - **Web services tools**
  - **Static code review and runtime analysis tools**
  - **Automated Java/Web Service unit testing**
- **Capabilities for the Architect**
  - **UML 2.0 modeling**
  - **Pattern/Transform authoring**
  - **Structural analysis and control**
  - **UML Language transforms**
- **Capabilities for the Tester**
  - **Manual test generation and execution**
  - **Automated functional regression testing**
  - **Load and performance testing**

IBM® Rational® Professional Bundle includes the desktop tools your enterprise needs to design, construct, and test J2EE/Portal/Service-oriented applications on both Windows and Linux and to test .NET applications. The bundle provides a single purchase vehicle with just one maintenance contract to manage. It provides the greatest flexibility for the individual practitioner to install and use the tool(s) they need to do their job. This bundle enables practitioners to easily use any tool as their role changes or as they need to perform new tasks. The tools in IBM Rational Professional Bundle are architected for ease of adoption, since all tools are installed inside an Eclipse-based application shell.

IBM® Rational® Professional Bundle drives application development that is optimized for WebSphere and DB2 software and provides strong support for developing for other J2EE-technology platforms, as well. It supports geographically distributed teams through a flexible, floating license model. Small, centrally-located teams can take advantage of the authorized user license model.

C++ developers can develop C++ applications in the same environment that is used for developing with other languages like Java and XML. They can use UML class diagrams to provide abstract views of C++ classes to simplify the development and understanding of new and existing applications.

For testing .NET applications, the Bundle includes testing tools that help teams automate the validation of .NET WinForm, WebForm, and Web Services functionality and scalability—including an advanced Visual Studio .NET-based functional testing tool that uses Visual Basic .NET as the test script language.

### **The Rational Professional**

#### **Bundle includes:**

##### *IBM Rational Software Modeler*

A UML-based visual modeling and design tool used to help ensure that specifications, architecture, and designs are clearly defined and communicated with stakeholders.

##### *IBM Rational Software Architect*

Create applications for the Java platform or in C++ that leverage model-driven development with the UML and unifies all aspects of software application architecture.

##### *IBM Rational Application Developer*

Quickly design, develop, analyze, test, profile and deploy Web, Web services, Java, J2EE, and Portal applications with a comprehensive IDE.

##### *IBM Rational Web Developer*

Build, test and deploy Web, Web services and Java applications with an IDE that is easy to learn and use.

##### *IBM Rational Functional Tester*

An advanced, automated functional and regression testing tool for testers and GUI developers who need superior control for testing Java, Visual Studio .NET, and Web-based applications.

##### *IBM Rational Manual Tester*

A manual test authoring and execution tool that promotes test step reuse to reduce the impact of software change on testers and business analysts.

##### *IBM Rational Performance Tester*

A performance test creation, execution and analysis tool for teams validating the scalability and reliability of their Web-based applications before deployment.

### **Optimized for IBM middleware**

IBM WebSphere Application Server is a high-performance and extremely scalable transaction engine for dynamic business applications. IBM Rational Professional Bundle lets you deliver a rapid and efficient response to business needs through new business applications without having to worry about which practitioner tools you need to purchase.

IBM® Rational® Professional Bundle includes highly-productive tools for building applications that target WebSphere Portal. As a core part of the IBM Workplace, WebSphere Portal for Multiplatforms V5.1 offers a single point of personalized interaction with applications, content, processes, and people for a unified user experience. It provides a flexible, open, and extensible framework to build successful business-to-employee (B2E), business-to-business (B2B), and business-to-consumer (B2C) portals.

IBM DB2 Universal Database is IBM's relational database management system for AIX, Linux, HP-UX, Sun, and Windows. Tools in Rational Professional Bundle provide wizards to create applications to connect to DB2 data sources.

### **Integral part of the IBM Software Development Platform**

The IBM Rational Professional Bundle is an integral component of the IBM Software Development Platform. The IBM Software Development Platform is the industry's most complete and powerful solution for software system creation and application lifecycle management. It provides automation support for essentially all aspects of software development. Further, it unites team members by enabling them to share information effectively with each other and between their tools.

The IBM Software Development Platform spans Windows®, UNIX®, Linux, mainframe, and embedded-systems platforms. It supports a wide spectrum of programming languages, integrated development environments (IDEs), and cross-development environments for real-time and embedded system developers.

### **Integrated with the IBM Rational® Team Unifying Platform**

The IBM Rational Professional Bundle integrates tightly with the IBM Rational® Team Unifying Platform to provide your enterprise with a full lifecycle solution that unifies your cross-functional teams of analysts, architects, developers, and testers and supports enterprise software projects from requirements to release. It unifies your team by providing common access to development assets, communication alerts, and workflow processes.

### **IBM Rational ClearCase Change Management Solution**

Large-scale or distributed teams can achieve enhanced collaboration capabilities by adding the IBM Rational Professional Bundle with the IBM Rational ClearCase Change Management Solution. This is the industry's premier software configuration management (SCM) solution, providing integrated defect and change tracking with software asset management, scaling to teams of arbitrary size or geographic distribution.

Specifications	Rational Software Modeler	Rational Web Developer
<p><b>Hardware and Software Requirements</b></p> <p><b>Operating System</b></p> <ul style="list-style-type: none"> <li>• <i>Microsoft Windows 2000 Professional, Service Pack 3,4</i></li> <li>• <i>Microsoft Windows XP Professional, Service Pack 1, 2</i></li> <li>• <i>RHEL WS 3 - Red Hat Enterprise Linux v3.0 Workstation</i></li> <li>• <i>SUSE Linux Enterprise Server 9</i></li> <li>• <i>Microsoft Windows 2000 Server, Service Pack 3,4</i></li> <li>• <i>Microsoft Windows 2000 Advanced Server, Service Pack 3,4</i></li> <li>• <i>Microsoft Windows 2003 Standard Edition</i></li> <li>• <i>Microsoft Windows 2003 Enterprise Edition</i></li> </ul> <p><b>Processor</b></p> <ul style="list-style-type: none"> <li>• <i>500 MHz PIII</i></li> <li>• <i>Recommend: 1.4+ GHz PIV</i></li> </ul> <p><b>Available RAM</b></p> <ul style="list-style-type: none"> <li>• <i>Minimum: 512 MB</i></li> <li>• <i>Recommend: 1 GB</i></li> </ul> <p><b>Available Disk Space</b></p> <ul style="list-style-type: none"> <li>• <i>1.5 GB installation directory per product</i></li> </ul>	<p><b>Open &amp; extensible modeling platform</b></p> <ul style="list-style-type: none"> <li>• Powered by Eclipse technology, an open and extensible tools integration platform</li> <li>• Leverages Eclipse open source APIs, including the Eclipse Modeling Framework (EMF) and the UML 2 meta-model</li> <li>• Supports the development of custom meta-models</li> </ul> <p><b>Architectural modeling &amp; specification</b></p> <ul style="list-style-type: none"> <li>• Supports all major UML 2 diagrams</li> <li>• Supports patterns and transformations for automating refinement of models and transition between analysis and design</li> <li>• Supports OCL for specifying architectural constraints</li> </ul> <p><b>Unparalleled ease of use</b></p> <ul style="list-style-type: none"> <li>• Simplified and responsive user interface</li> <li>• Browse and explore models using diagrams</li> <li>• Automatic &amp; assisted diagram generation</li> </ul> <p><b>Lifecycle and team integration</b></p> <ul style="list-style-type: none"> <li>• Integrates with Rational RequisitePro, Rational ClearCase, and Rational ClearQuest</li> <li>• Includes a Rational Unified Process configuration for Software Architects</li> <li>• Supports CVS for software configuration management</li> <li>• Automates traceability from requirements to design</li> </ul>	<ul style="list-style-type: none"> <li>• Accelerate Web, Java and SOA development using RAD tools and wizards</li> <li>• Leverage existing skills and shorten the Java learning curve with drag-and-drop UI components and point-and-click database connectivity</li> <li>• Integrate your business applications with interoperable Web services and service-oriented architectures</li> <li>• Streamline application testing with integrated unit test environments and visual debugger</li> <li>• Adapt and extend your development environment with Eclipse-based plug-ins to match your needs</li> <li>• Track activities, help ensure quality and manage versions and releases via integration with the IBM Software Development Platform</li> </ul>

All products require significantly more disk space in the event that the user is not installing from a CD.

Please see the Specifications for the individual products for the most precise Hardware and Software requirements information.

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## Rational Application Developer

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- Accelerate portal, SOA and J2EE development using RAD tools and wizards
- Leverage existing skills and shorten the Java learning curve with drag-and-drop UI components and point-and-click database connectivity
- Help improve code quality with automated tools for coding standard reviews, component and Web Service unit testing and multi-tier runtime analysis
- Integrate your business applications with interoperable Web services and service-oriented architectures
- Visualize and graphically edit code through the UML Visual Editor for Java and EJB
- Collaborate and share assets across the team using the included Rational ClearCase LT version control
- Adapt and extend your development environment with Eclipse-based plug-ins to match your needs
- Quickly build and deploy interactive reports using drag-and-drop UI components and Crystal Reports software

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## Rational Software Architect

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### Open & extensible modeling platform

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- Powered by Eclipse technology, an open and extensible tools integration platform
- Leverages Eclipse open source APIs, including the Eclipse Modeling Framework (EMF) and the UML 2 meta-model
- Supports the development of custom meta-models

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### Architectural modeling & specification

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- Supports all major UML 2 diagrams
- Supports patterns and transformations for automating refinement of models and transition between analysis, design, and implementation
- Supports OCL for specifying architectural constraints

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## Java application structural review & control

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- Automatic detection of structural patterns & anti-patterns to facilitate the refactoring of Java applications
- Defines structural rules for architectural control of Java
- Includes “markerless” UML code editors for J2EE, Java, and C++ structure and behavior

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## Unparalleled ease of use

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- Simplified and responsive user interface
- Browse and explore models or code using diagrams
- Automatic & assisted diagram generation

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## Lifecycle and team integration

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- Integrates with Rational RequisitePro, Rational ClearCase, and Rational ClearQuest
- Includes a Rational Unified Process configuration for Software Architects
- Supports CVS for software configuration management
- Automates traceability from requirements to design & implementation

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## Rational Manual Tester

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- Manual test creation, execution and control
- Test step reuse palette to enable sharing of content across multiple tests
- Assisted data entry & data verification during test execution to reduce human error
- Rich text editor supporting embedded image and document support
- Multiple validation points and customizable data fields to personalize results collection and simplify analysis
- Imports Word or Excel-based manual tests with customizable import capabilities
- Supports usage by distributed teams

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## Rational Functional Tester

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- Robust functional testing of Java, Web, and Visual Studio .NET Winform-based applications
- Choice of language is Java or Visual Basic .NET for test script customization
- Native Java and Visual Basic .NET editor and debugger for advanced testers
- ScriptAssure technology to accommodate frequent UI modifications
- Automated data correlation and data driven testing to minimize manual coding
- Multiple verification points with regular expression pattern matching support
- Advanced object map maintenance capabilities
- Linux test editing and test execution support
- Version control ready
- Add-on support available for testing 3270/5250 terminal-based applications
- Ships with full-use copies of IBM Rational Manual Tester and IBM Rational ClearCaseLT

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## Rational Performance Tester

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- Multi-user performance testing for Web-based applications
- Windows and Linux-based user interface; Windows, Linux and UNIX-hosted test execution
- Rich, tree-based test editor delivering both high-level and detailed test views
- Flexible modeling and emulation of diverse user populations
- Low memory and processor footprint, enabling large multi-user tests with limited hardware resources
- Real-time reporting to enable immediate recognition of performance problems
- Automatic identification of and support for dynamic server responses
- Automated test data variation
- Collection and integration of server resource data with real-time application performance data
- Offline viewing of websites accessed during test creation and execution
- Freeform Java code insertion for flexible test customization

## IBM Rational Services

A variety of service offerings are available to complement IBM Rational tools and best practices to help you build the capabilities you need in a combination that's right for your business. Our services are designed to help you build team skills, reduce the time to productivity when implementing a new solution, and to maximize the return on your investment in IBM Rational tools.

- *IBM developerWorks: Rational is the technical resource for the community of development professionals using or evaluating IBM Rational tools and best practices. developerWorks: Rational offers a variety of downloads, resources, discussion groups, and education designed to help you utilize IBM Rational solutions to best advantage.*
- *IBM Rational software training offers a curriculum that includes courses covering all the software development capabilities. A blended curriculum of instructor-led and Web-based training provides a variety of options to suit your organization's education needs.*
- *The IBM Rational worldwide staff of professional services consultants bring years of experience to help you lay a solid foundation for successful software development projects. You can engage Rational professional services on large-scale customized consulting projects that are tailored to meet your organization's unique needs, or you can engage your local account team for short-term assistance with a single challenge. Several types of "packaged" services are also available, including offerings that provide an objective assessment of your software development capabilities, deploy a new tool or methodology, or help you produce tangible assets through a facilitated workshop.*
- *IBM Rational Customer Support helps ensure that your project keeps moving forward with the help you need, when you need it. These maintenance programs offer efficient problem resolution with both online access to tens of thousands of technical notes, patches, and upgrades, as well as direct access to a talented team of support engineers.*

*IBM Software Maintenance is the standard maintenance offering, and Technical Support Account Services can supplement this, according to your business requirements.*

## About 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 Software Development Platform, the premier platform for teams who 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. Additional information is available at [ibm.com/rational](http://ibm.com/rational) and [ibm.com/developerworks/rational/rationaleedge](http://ibm.com/developerworks/rational/rationaleedge), the monthly e-zine for the Rational community.



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