

Rational software

Supercharge your IBM WebSphere software development.

Help build and deploy higher-quality applications faster and for less with IBM Rational solutions optimized for WebSphere environments

Improve your WebSphere software productivity

High-quality software applications are critical to most businesses today. Therefore, the faster and more cost-efficiently you can get them running, the better. However, skimping on quality by rushing the product out the door in favor of speed and cost cutting can backfire. Poor quality often leads to lower user satisfaction, customer churn, poor sales and a lower return on investment (ROI).

Proven offerings from IBM Rational® software can help your organization focus on speed, cost optimization and quality. With Rational solutions optimized for businesses that use IBM WebSphere® software, you may be able to develop and deploy higher-quality software faster.

Reduce WebSphere software operational costs

Administering and managing WebSphere environments can provide opportunities for operational and time efficiencies optimization. This is particularly true as production and test configurations expand to meet the needs of your growing business.

Rational solutions for IBM WebSphere Application Server and IBM WebSphere Portal software can automate many administrative tasks, improving productivity and freeing staff to work on more important tasks.

Help reduce your cost of operations and increase quality and consistency with:

- **IBM Rational Automation Framework for WebSphere software**—a customizable framework based on best practices and industry standards that automates manual administrative efforts associated with WebSphere software deployments, configuration changes, installation and updating.

To learn more, visit:

ibm.com/software/rational/products/buildforge/framework

An information and networking technology company realized a 268 percent ROI from a WebSphere Portal software deployment, saving an estimated

US\$1.2 million for the entire project. Rational software helped the company deploy WebSphere Portal software for its 12 lines of business in six months versus what would have taken 2.5 years without the Rational solution.



Accelerate software development while reducing costs and risks

Developing robust software requires careful attention to solution design and development. However, in today's "first to market wins" environment, organizations with already strained resources are up against tight timelines. This situation often results in reduced attention to proper design; "spaghetti code development" that is difficult to enhance and maintain; and a lack of thorough, early testing, which can lead to higher costs in the long run. Alternately, teams may be forced to limit the delivered capabilities or delay shipment dates, hurting the business.

The IBM Rational Software Development Platform solution helps alleviate these challenges by supporting faster application design and development of enterprise software. The platform can constantly validate design and development tests and more easily test new software functionality and performance with one-click build and deploy capabilities. WebSphere Application Server and WebSphere Portal software provide powerful and feature-rich application foundations, and Rational software solutions provide specialized software design and development tools to leverage those WebSphere capabilities, helping to optimize returns from your existing infrastructure.

Accelerate your WebSphere application development with:

- **IBM Rational Application Developer for WebSphere Software solution**—supports the rapid building and deployment of high-quality software using accelerated development features, constant validation and quality checks, and testing on integrated WebSphere Application Server and WebSphere Portal servers.
- **IBM Rational Software Architect® for WebSphere Software solution**—helps translate project requirements into a functioning architectural design that directly matches its deployment infrastructure, providing comprehensive service-oriented architecture (SOA) and complex IT design, development and delivery for WebSphere environments.

To learn more about Rational Application Developer software, visit:

ibm.com/software/awdtools/developer/application

To learn more about Rational Software Architect software, visit:

ibm.com/software/awdtools/swarchitect/index.html

Improve application quality while streamlining testing

Poor application quality can lead to damaging chain reactions throughout the business cycle. For example, it can reduce application availability or lengthen response times, which can lead to stalled business operations, frustrated customers or reduced user productivity. At the same time, because testing is resource intensive and time-consuming, it is often put off to a later time in the software delivery cycle. However, it's important to understand that defects found in production can cost several hundred times more to fix than if those same defects had been discovered in the requirements phase.

Rational quality management solutions can help teams cope with schedule and budget pressures by enabling team collaboration, accelerating validation through automation and providing quality metrics for key project decisions. Using the Rational software risk-based approach to quality, you can link requirements, development work items and defects directly to test cases, giving you a closed-loop process. IBM Rational test automation solutions help you deliver higher-quality WebSphere software-based applications faster with fewer defects and improved application availability.

Equip your teams with the right tools to help increase testing scope and meet tight deadlines:

- **IBM Rational Quality Manager software**—provides centralized test planning, workflow control, defect tracking, management and metrics.
- **IBM Rational Functional Tester software**—automates functional and regression testing.
- **IBM Rational Performance Tester software**—helps identify performance problems and diagnose the causes to improve response time and reduce application downtime.
- **IBM Rational PurifyPlus™ software**—enables dynamic software analysis, helping developers more quickly write reliable code.
- **IBM Rational Software Analyzer software**—helps identify and address defects at the earliest stage in the software development lifecycle by performing static analysis and code quality reviews.

To learn more, visit:

ibm.com/software/rational/offerings/quality





Bolster Web application security

Keeping up with regulations and staying ahead of security threats with applications that run on WebSphere platforms is a constant challenge. The high cost of being hacked can include reduced customer trust, steep fines and diminished brand value. Strong Web security measures are essential to cost and risk optimization. Rational software can help you stay ahead of threats while keeping costs in check through solutions that can automatically scan Web applications for security vulnerabilities and provide fix recommendations. They can also correlate industry regulations to security audits in support of compliance with Payment Card Industry Data Security Standard (PCI DSS) and other industry regulations.

Protect your business on the Web, on a budget:

- **IBM Rational AppScan® software**—performs security vulnerability testing. Depending on your needs, you can use IBM Rational AppScan Express Edition software, or you can avoid up-front costs with the IBM Rational AppScan OnDemand version, a Software as a Service (SaaS) offering.
- **IBM Rational Policy Tester™ software**—provides scanning analysis for privacy, quality and accessibility compliance testing and reporting.

To learn more, visit:

ibm.com/software/rational/offerings/websecurity/

Optimize WebSphere software deployment

Although often overlooked, operational considerations are critical when related to deploying complex software on a vast WebSphere infrastructure. To aid in the deployment of new applications, Rational software provides capabilities to architect and automate the physical deployment of enterprise solutions on systems running WebSphere software and other required infrastructure. This helps ensure the continuous, smooth functioning of existing business operations and prevent unforeseen delays.

Automate deployment to get more out of your IT budget—in a shorter timeframe:

- **IBM Rational Automation Framework for WebSphere software**—offers a solution of more than 500 specific actions designed to automate WebSphere administration.
- **IBM Rational Software Architect for WebSphere Software solution**—helps you specify and plan how software solutions are deployed on physical systems and resources, such as WebSphere servers, databases or other infrastructure. This helps development and operations teams communicate specific deployment requirements and avoid late deployment challenges.

To learn more about Rational Automation Framework for WebSphere software, visit:

ibm.com/software/rational/products/buildforge/framework

To learn more about Rational Software Architect software, visit:

ibm.com/software/awdtools/swarchitect/index.html



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Deliver better WebSphere software solutions faster

IBM Rational software is virtually unparalleled in its integration with WebSphere software. To learn more, contact your IBM representative or IBM Business Partner, or visit:

ibm.com/software/rational