

**Rational.** software

## IBM Rational Synergy software

---

### Highlights

---

- **Unify your global, distributed development teams on a central change, configuration and release management platform.**
- **Gain unique visibility and control via an integrated view of change and configuration management artifacts.**
- **Build upon advanced capabilities with high-end software change management support for effectively managing your software assets, thereby reducing development times.**
- **Coordinate software development around a single global repository and achieve the benefits of application lifecycle management (ALM) on a global scale.**
- **Simplify developers' daily lives by automating collaborative development activities.**
- **Respond quickly to changing customer needs by innovatively executing complex development projects.**

### Bringing together global users on a centralized, unifying team platform

In today's globalized economy, innovation holds the key to survival and growth. Organizations are profiting from skills and capital arbitrage through distributed resources. To support these

dispersed, collaborative teams, you need a unifying platform that enables their cooperation for maximized value creation. IBM® Rational® Synergy software provides that platform by bringing together your global teams on a centralized platform for systems and



Figure 1: What kind of performance would you expect over a WAN from your SCCM platform?

software development. Together with its bottom-up support for achieving agility through task-based configuration management and advanced software change management (SCM) capabilities, you can enable seamless collaboration for optimal value.

### **Fast WAN access to central software change and configuration management repository**

Global software development is inherently complex. Your organization needs availability and visibility of assets to respond quickly to changing market needs. Your developers cannot be encumbered by synchronization delays, network latency and process inconsistencies across geographically dispersed locations.

Rational Synergy, IBM's solution for advanced software development, provides your systems and software development teams collaboration in realtime over a global delivery framework. It brings together your distributed development teams on a unified change, configuration and release management platform.

The centralized WAN access mode permits team members from virtually any location to work from a central development repository and carry out operations with exceptional, LAN-like speeds. No longer do you have to set up multiple servers and replicate, which can help reduce operational and process overheads.

### **A common language for managing systems and software development and supporting agility**

Systems and software development is a social activity. There are many participants in this activity, and all these roles need to collaborate effectively for a quality product to emerge.

What they need is a common language that allows each to interact with the system under development and with each other. That common language is task-based configuration management (TBCM). IBM Rational Synergy TBCM automates tracking of file version changes, while managing process and build content at the work assignment or Synergy task level. The control point is no longer "update to the latest version" but rather "update to the latest effective set of completed work assignments."

The benefits of a common development language include:

- *Visibility into in-progress work avoids unnecessary duplication of effort between developers.*
- *Clear understanding of why files have changed via their associated task information.*
- *Poor quality code can be set aside until fixed, without slowing down the development team.*
- *Testing can match the changes present in the software and avoid costly test reruns.*
- *Parallel development is simplified because work assignments or tasks can be added to multiple release streams.*
- *Powerful conflict detection capabilities find dependencies between promoted changes.*

### **Collaborate to innovate for complex systems development**

Synergy software offers advanced capabilities to help organizations improve the quality of their distributed development processes and streamline workflow and communication. It supports development in both centralized and disaggregated modes. It features a powerful process engine for collaborative development and on-demand scalability and resilience.

Rational Synergy software can help to improve productivity by enabling users to communicate and coordinate development efforts, thereby avoiding duplication and the need for rework. It provides support for process-based configuration management for the enterprise developing potentially large and complex software projects with needs for:

- *Centralized development and management of dispersed resources.*
- *Process improvement guidance.*
- *Compliance with internal and regulatory requirements.*
- *Component-based development and software reuse*
- *Complex, deterministic parallel development.*
- *Advanced baseline and release management.*

#### **Enhanced integrations that unify your teams around a common ALM platform**

IBM Rational Synergy software enables organizations to coordinate their software development around a single global configuration management repository, which allows them to achieve the benefits of application life-cycle management on a global scale.

Software evolves over time. Organizations need a managed process to keep track of changes to user requirements that go into the finished product. Synergy software features advanced capabilities for high-end software delivery and has integrations with solutions from IBM Rational and third parties.

The Synergy solution is tightly integrated with IBM Rational Change software to provide you with a single, behavioral view of your development status simultaneously with the changes affecting the application. You can also achieve comprehensive “requirement-to-code” traceability through its upstream integration to IBM Rational DOORS® software and automate build and release execution with the IBM Rational Build Forge® solution.

#### **How it works**

Synergy software works by enabling your organization to centralize its systems and software development around an integrated SCM platform with fast, LAN-like access to geographically remote users for team activities. Coupled with support for configurable, collaborative development and a highly deterministic approach for advanced development needs, Synergy provides effective capabilities for your software delivery environment.

#### **For more information**

To learn more about IBM Rational software, contact your IBM representative or IBM Business Partner, or visit:

[ibm.com/software/rational](http://ibm.com/software/rational)



© Copyright IBM Corporation 2009

IBM Corporation  
Software Group  
Route 100  
Somers, NY 10589  
U.S.A.

Produced in the United States of America  
June 2009  
All Rights Reserved

IBM, the IBM logo, [ibm.com](http://ibm.com), Build Forge, DOORS, and Rational are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both. If these and other IBM trademarked terms are marked on their first occurrence in this information with a trademark symbol (® or ™), these symbols indicate U.S. registered or common law trademarks owned by IBM at the time this information was published. Such trademarks may also be registered or common law trademarks in other countries. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at [ibm.com/legal/copytrade.shtml](http://ibm.com/legal/copytrade.shtml)

Other company, product, or service names may be trademarks or service marks of others.

References in this publication to IBM products or services do not imply that IBM intends to make them available in all countries in which IBM operates.

The information contained in this document is provided for informational purposes only and provided "as is" without warranty of any kind, express or implied. In addition, this information is based on IBM's current product plans and strategy, which are subject to change by IBM without notice. Without limiting the foregoing, all statements regarding IBM future direction or intent are subject to change or withdrawal without notice and represent goals and objectives only. Nothing contained in this documentation is intended to, nor shall have the effect of, creating any warranties or representations from IBM (or its suppliers or licensors), or altering the terms and conditions of the applicable license agreement governing the use of IBM software.

IBM customers are responsible for ensuring their own compliance with legal requirements. It is the customer's sole responsibility to obtain advice of competent legal counsel as to the identification and interpretation of any relevant laws and regulatory requirements that may affect the customer's business and any actions the customer may need to take to comply with such laws.