

IBM Rational ClearCase MultiSite

Highlights

- ***Provides automatic, error-free replication of project repositories between geographically distributed sites; eliminate error-prone, manual operations***
- ***Resends information in the event of network failure and recovers repositories in the event of system failure automatically***
- ***Scales easily to support projects regardless of size of team, location of members, or platform usage***
- ***Efficiently transmits only incremental changes that appear in IBM Rational ClearCase's project repositories, a network resource and time saver***

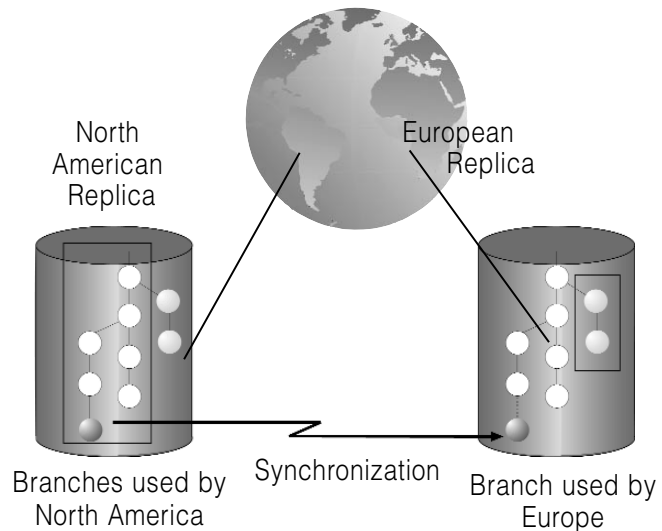
Uniting Distributed Teams

Efficiently managing distributed development is essential to maintain an on demand business environment. Managing distributed development teams without the proper software is painful. Fortunately, IBM Rational software has a solution that makes the job of coordinating remote teams easy and extremely efficient. IBM® Rational® ClearCase MultiSite® solves the inherent problems associated with geographically distributed development efforts. With Rational ClearCase MultiSite, project teams can seamlessly develop and integrate software changes across

multiple locations, with the same ease and reliability you would experience working out of the same office.

Rational ClearCase MultiSite is the industry's proven, reliable software asset management solution that supports distributed development with automated, error-free replication of project databases, and allows transparent access to all software elements.

Rational ClearCase MultiSite creates and automatically updates replicas of IBM Rational ClearCase® versioned



Rational ClearCase MultiSite supports parallel software development across geographically distributed sites by replicating and synchronizing project databases.

object bases (VOBs). With ClearCase MultiSite, project teams access, develop, and integrate software changes from multiple locations using ClearCase's, reliable software asset management support. ClearCase MultiSite provides transparent support for developers, and flexibility and security for managers, while placing minimal demands on project administrators and the development infrastructure.

Who Uses Rational ClearCase MultiSite?

Rational ClearCase MultiSite serves software project teams that span multiple locations and time zones. ClearCase MultiSite is an ideal solution for software companies, embedded systems developers, IT departments, contract development firms, and other organizations with:

- Project teams that build and maintain large-scale systems at multiple sites
- Porting, localization, and customization teams at separate facilities

- Licensees and OEMs who prepare and distribute special versions of standard products
- Acquired development organizations, or partners, who coordinate work with a central development group
- Software release, distribution, and standards teams that share information across groups

The Power of Rational ClearCase Around the World

Rational ClearCase MultiSite extends the powerful software asset management support of Rational ClearCase*, which features version control, workspace management, build management, and process control. Also, it offers robust features — professionally maintained and supported — with power and flexibility far beyond homegrown and manual methods. Seamless integration with ClearCase makes working in a replicated repository just like working in a non-replicated repository.

Rational ClearCase MultiSite uses Rational ClearCase's familiar branch-and-merge model of parallel development. Project integration can take place at any site at any time, unlike less flexible, copy-based systems. Because ClearCase MultiSite implements a peer-to-peer replication model, teams can easily create and delete replicas as appropriate for evolving projects.

Geographically Dispersed Software Configuration Management

To manage change across geographically dispersed project teams and distributed servers, Rational ClearCase MultiSite and IBM Rational ClearQuest® MultiSite, a flexible defect and change tracking tool, provide all the infrastructure necessary to track change requests, and the activities associated with them. Together this powerful combination forms a robust software configuration management (SCM) solution for distributed teams that

**Rational ClearCase LT customers requiring MultiSite capabilities must trade-up to Rational ClearCase.*

supports Unified Change Management (UCM), Rational's best practices process for managing change. Based on the proven technology of ClearCase MultiSite, Rational ClearQuest MultiSite is an optional add-on solution for IBM Rational ClearQuest that supports synchronized, incremental changes to source code.

Rational ClearQuest MultiSite helps geographically distributed project teams to work together efficiently by providing local access to replicated defect and change tracking data, and by enabling automatic synchronization of those databases at any time.

Key Programs Multitool

Multitool, the principal program in the product, provides access to commands that create, update, and manage replicas. Subcommands follow the familiar Rational ClearCase syntax, and include:

- mkreplica – creates a new VOB replica for a specific site

- syncreplica – synchronizes (updates) a VOB replica with one or more replicas in its VOB family by automatically exporting and importing changes to the replicated VOBs
- chmaster – transfers mastership of a VOB object (i.e., element, branch, or metadata) from one replica to another
- reqmaster – requests mastership of branch type at a remote replica

Shipping Server

Shipping server is a TCP-based, store-and-forward system that sends synchronization updates from a local VOB replica to remote replicas.

Advanced Features:

MultiSite VOB Replication

Creates a full-function VOB by replicating the contents of an existing VOB for multiple locations. Replicated VOBs are local to each site, and are used for daily development work at each site.

Automatic VOB Updates (Synchronization)

Automatically synchronizes source files and metadata (event histories, hyperlinks, attributes, and access controls) in replicated VOBs. Transmits changed data from each replica, bringing each up-to-date with work at other sites.

Object Mastership Enforcement

Mastership of key VOB objects supports orderly parallel development, eases project integration, and prevents changes made at one site from overriding changes made at other sites. Object mastership can be transferred by administrators, and branch mastership can be requested by developers.

Flexible Update Mechanisms

Project leaders or administrators schedule MultiSite VOB updates as needed, choosing from multiple update mechanisms, including a built-in store-and-forward system, standard file transfer facilities, or magnetic tape.



Accelerate Success with Rational Services

Like all IBM Rational tools, Rational ClearCase MultiSite is supported by an extensive, worldwide service organization. Explore more than a thousand articles, white papers, courses, and artifacts online at the IBM Rational Developer Network™. Build your team's capability through expert consulting and technical support services. And take advantage of more than 60 courses available from IBM Rational University to speed technology deployment and accelerate your project's delivery. Available where and when needed, IBM Rational Services improve self-sufficiency and build a foundation for continuous software development improvement.

SPECIFICATIONS

Supported Environments

- *Hewlett-Packard HP-UX*
- *IBM AIX*
- *Red Hat Linux Intel*
- *Silicon Graphics IRIX*
- *Sun Solaris SPARC*
- *SuSE Linux on IBM mainframe*
- *Windows NT*
- *Windows XP Pro*
- *Windows 2000*

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