

Siemens Switzerland Mobility raises efficiency IBM Rational ClearCase MultiSite®



Reference study Rational ClearCase



The customer: Siemens Switzerland Mobility Division

The regional organization Siemens Switzerland, with 3492 employees, generated a total order value of CHF 1,931 billion in the 2008 business year. The company's main activities are concentrated in the three sectors „Energy“, „Healthcare“ and „Industry“.



The „Industry“ sector includes the divisions „Mobility“, „Building Technologies“ and „Industry Automation and Drive Technologies“. Furthermore, Siemens IT Solutions and Services, as a so-called cross-sector company, offers services in the IT area for internal and external partners. In the Mobility division, Siemens links various transport systems in order to transport people and goods efficiently. The division is the internationally leading provider of transport and logistics solutions. With the „Complete Mobility“ approach, Siemens Mobility unifies the various company competencies: signaling and control systems for train and road traffic technology, solutions in the airport logistics sector, post automation and rail electrification, rolling stock in local, regional and long-distance traffic and future-oriented service concepts.

„ClearCase and MultiSite enable us to work efficiently and securely together within the IT team as well as with our external partners“.

Adrian Stutz, Corporate Information and Operations, Siemens Switzerland Mobility

Highlights

- **Efficient software development with ClearCase:** With ClearCase, software-builds and releases can be created rapidly, securely and transparently. This has contributed to a significant lowering of project and maintenance costs for new technical software applications.
- **Transparent change processes:** ClearCase modifies and distributes all software programs exclusively on the basis of approved change requests. This has led to a high degree of employee quality awareness. Control over the software change process can be specifically assigned, exercised and documented.
- **Collaboration of internal teams and external partners:** ClearCase MultiSite enables the secure collaboration of various internal development teams as well as external software partners whilst ensuring the highest quality and security standards. Furthermore, the architecture makes the smooth usage of different operation systems from various manufacturers possible, such as for example Microsoft Windows, RedHat Linux and Solaris.

The challenge

Siemens Switzerland Mobility Division develops software for internal and external customers at various locations together with partner companies. The companies involved with the products have their own networks, different development processes and work at various locations.

ClearCase has already been successfully employed by the Siemens Switzerland Mobility Division for several years as a tool for version control for various locations and projects. Even partner companies use ClearCase and other compatible development tools on various operating systems.

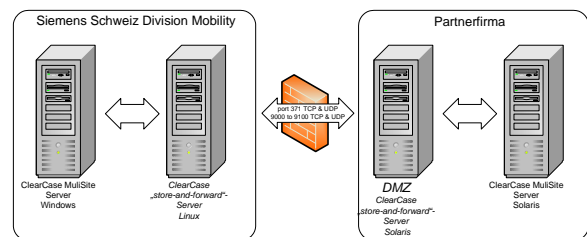
In order to achieve stable and real-time collaboration in the area of software development and change processes, a solution was sought whereby versions of development software could be exchanged securely, rapidly and economically between teams in different companies at dispersed locations.

In each case, the installation had to be carried out in at least two different locations successively and in two different networks.

The solution

In the Siemens Mobility Division network, a so-called ClearCase Store&Forward server was installed in front of the firewall on a dedicated Linux MicroServer (RedHat).

This gateway was integrated via a secure connection with a ClearCase MultiSite server (NT) within the Siemens network, as well as with a dedicated ClearCase Store&Forward MicroServer (Solaris) at the partner company in a so-called DMZ. This partner company ClearCase Store&Forward server was linked to a new ClearCase MultiSite server (NT) via a secured connection.



The advantages of ClearCase and ClearCase MultiSite

- Employees of Siemens and its partner companies work with the same software version, which can be exchanged reliably and automatically. Changes can easily be traced and are transparent. Moreover, the fulfillment of legal and regulatory demands can be verified with minimal effort.
- The customer network and ClearCase server resources are relieved of additional traffic and access by partner company employees. The existing firewall concepts do not require additional protective measures. Furthermore, it is no longer necessary to assign system access to external companies, and the support for employees of partner companies by Siemens becomes superfluous.
- Other Siemens teams can also use the solution and employ it in both directions. They can thereby connect the same or other partners. The hardware used for this and the operating system for the ClearCase MultiSite installation can be freely selected and combined in line with availability.
- The process is tolerant, stable, transparent and repeatable. Moreover, normally no maintenance or intervention is necessary. The installation is easy to carry out and maintain.

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