Abstract

The phenomenon of global software development has changed the traditional methods of software engineering. Along with several benefits, globalization brings lot of challenges for practitioners of global software development. Among all challenges, establishment of a configuration management system for distributed teams is one of the major technical challenges. Therefore, in this study, it has been investigated that what type of configuration management system should be established and what should be its architecture for globally distributed software development teams. It has been proposed that a centralized configuration management system, designed on the principles of multi-tenancy is the appropriate architecture for configuration management system for globally distributed software development teams.

References

- Carmel, E. 1999, "Global Software Teams: Collaborating Across Borders and Time"
- Pilatti, L., Audy, J. L. N. and Prikладник, R. 2006, &quot;Software Configuration Management over a Global Software Development Environment: Lessons Learned from a Case Study&quot;
- Berczuk, S. P., and Appleton, B. 2002. &quot;Software Configuration Management Patterns: Effective Teamwork, Practical Integration&quot;. Addison Wesley.
- Scott, J. A. and Nisse, D. 2001, &quot;Software Configuration Management&quot;.

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**Index Terms**

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