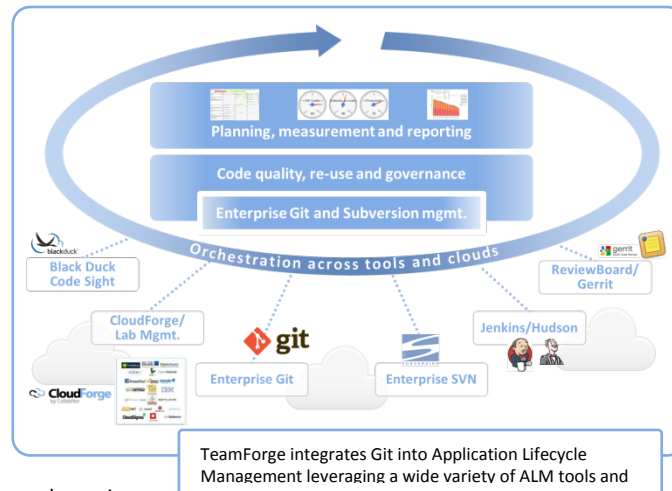


100% Security and Compliance: Enterprise Git with CollabNet TeamForge

Overview

To manage Git at enterprise scale, rock-solid security is imperative. Enterprises need to know their IT assets are protected from IP theft, malicious acts and accidental data loss. This means management of code and Git repositories must adhere to the same rigorous standards of leading SCMs like Subversion, regardless of whether Git is deployed on premise or in a public or private cloud.

Developers love Git for its speed, flexible workflow and powerful branching and merging capabilities. When managed correctly, Git's powerful features help speed innovation and accelerate release cycles. When Git is not managed properly, however, its power can wreak havoc and put enterprises at great risk of losing IP and the integrity of their code. With Git's "rewrite history" feature (forced pushes and alike), code can be accidentally or purposely deleted, and history rewritten or erased – leaving no trace. Lost code and faulty audit logs have serious business implications.



Key Benefits

100% Security and Compliance
TeamForge "History Protection" stops code loss, protects IP and leaves perfect audit trails.

Automated Gerrit Code Reviews and Workflow increase productivity, prevent manual error, and control what is merged back into the Git golden repository.

Hybrid SCM manage Git and Subversion with one common management and security platform.

ALM Integration Integrate Git into your ALM tools and processes.

Enterprise Git that's 100% Secure and Compliant

CollabNet is the first and only software vendor in the industry that makes Git 100% enterprise ready, secure and compliant. With CollabNet TeamForge, enterprises realize all the benefits of Git, without compromising governance, security and compliance. Key capabilities include:

Full Protection from Errors and Malicious Acts: TeamForge stops code loss and protects IP with auto-archival of change history. Rather than disable Git's rewrite history feature, TeamForge lets you control how that powerful feature is used. TeamForge's new 'History Protection' feature prevents code, branches and repositories from being accidentally or purposely deleted. With TeamForge enterprises can centrally manage and protect the Git master code repository to safeguard against natural disasters, human error and technical failures.

Tamper proof auditing: TeamForge provides tamper-proof auditing with active change logging. Every code change, every command is automatically and permanently registered and archived, leaving the perfect audit trail. No more worrying about gaps in your audit trails or loss of data integrity.

Full Change Rollback, even for History Rewrite (push -f): Recover even changes removed by Git's history rewrite feature. History rewrite covers all non-fast forward updates of remote refs, which includes all cases where previous changes would no longer show up in Git's change history. TeamForge provides easy, self-service recovery of history changes from its web interface as well as from the Git command line. Roll back to previous versions of code and repositories with all associations and dependencies intact.

Topics trending now

Many of the latest technology announcements have implications for PaaS and cloud development that will serve agile businesses everywhere.

- TeamForge 6.2, www.collab.net/teamforge6.2
- Enterprise Git, www.collab.net/git
- Enterprise Cloud Development, www.collab.net/ecd

Enterprise Protection with Access Control and Permissions

Role Based Access Control and Permissions Management: With TeamForge, enterprises are safe to endorse Git as a corporate standard. TeamForge lets you enforce role-based access control (RBAC), permissions management, authentication and encryption across all your Git repositories. Choose from predefined roles or create your own. TeamForge RBAC extends beyond repository management, across the entire ALM process.

Fine-grained Permissions Management: By embedding Gerrit into TeamForge, enterprises gain instant access to the industry's leading permissions management framework for Git. Granular permissions control what users can view, create or modify, and can be used to manage access down to the individual branch level.

Authentication and Encryption: TeamForge supports all common authentication methods (LDAP, PKI, AD), single-sign (SSO), SSL and SSH protocols (asymmetric key cryptography) to secure enterprise data communications.

Central Repository Management: Centralized repository management ensures integrity of code. With TeamForge it's easy to create and clone Git repositories and to synchronize master repositories with satellite Git repositories, whether on-premise or in the cloud. Securely manage all of your Git repositories without compromising Git's flexibility.

Automated Code Reviews and Workflows

Integrated Gerrit Code Reviews: Collaboration is vital for scalable development and project management. TeamForge fosters peer reviews and code reviews, by leveraging the popular Gerrit code review tool in its web interface, connected IDEs and Git clients. This helps to codify best development practices, and to increase code quality by enforcing quality gates.

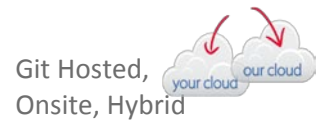
Automated and Enforced Workflow: Only code that has been through review and officially approved is merged back into the golden repository. Choose from pre-packaged review templates encoded in TeamForge or customize to your organization's unique processes.

Review Automation with CI tools like Jenkins: Developer time can be wasted evaluating code review requests that haven't met specific quality standards. TeamForge prevents this and increases developer productivity by automating code reviews using the pre-integrated Jenkins build server, which validates whether changes submitted compile and pass unit/integration tests.

Integrates Git with Application Lifecycle Management

End-to-end Application Lifecycle Management: TeamForge can easily expand from a Git management solution, to an entire ALM solution for your enterprise. TeamForge is a new breed of ALM platform that promotes business alignment across the entire software delivery lifecycle, from development and test to production and release. Create enterprise-wide standards and streamline development, release management and deployment, by fostering collaboration across your global teams.

Code Commit to Tracker Traceability: With TeamForge, teams can enforce code commits to be automatically associated with tracker artifacts. By doing so, enterprises gain clear audit logs, such as who did what, when, and why. Commonly used trackers such as stories, epics, tasks, defects, tests or issues can be used for creating workflows and associations, enabling traceability, or for managing ownership, status and activity. Rich associations help teams simplify the reuse of IP assets. It is also possible to create associations with all other entities managed by TeamForge, e.g. documents, forum posts, releases, wiki pages and web content.



Git Hosted,
Onsite, Hybrid

Onsite – deployed in your own data center and within your own firewall, you have access to optional silver, gold or platinum support

Hosted – we host your TeamForge platform and provide fully managed services including 24x7 operations and live support.

Hybrid – deployed in your own datacenter, with code backups automatically and securely performed to the cloud

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Tool Integration with TeamForge Connect: TeamForge Connect is an open integration framework that enables orchestration across ALM platforms. With TeamForge Connect, these platforms can be integrated natively into the TeamForge environment, both from a look and feel, as well as from a lifecycle traceability perspective. This enables you to associate Git commits with artifacts managed in products like HP Quality Center/ALM, Jira, MS TFS, ScrumWorks Pro, etc. Integrate TeamForge with a wide variety of Open Source and 3rd party plug-ins, or build your own integration with our toolkit.

Hybrid SCM: There is an increasing need for enterprises to manage Git and Subversion (SVN) together. TeamForge natively supports both Git and SVN and provides one, common management and security platform for both, whether deployed on-premise or in the cloud. This hybrid approach lets teams share IT assets and integrate workflows across and within Git and SVN projects.

IT Standards and Support for Git

With its Git adapter, TeamForge supports standard Open Source Git and Gerrit distributions. That means you can take full advantage of new innovations within the Git and Gerrit products. There is no lock-in to proprietary frameworks or tools.

Upgrade Compatible Git and Gerrit: Oftentimes upgrading can be a complex process and require ongoing testing and rework that is expensive and time-consuming for enterprises. With TeamForge, you're assured that your solution is upgrade compatible and easy. TeamForge abstracts the Git management with a business-oriented management console, interfacing with Git and Gerrit via APIs.

24/7 Enterprise Support, with Standard SLAs: For over 10 years, CollabNet has been in the business of supporting industry leading Open Source SCM tools. We understand enterprise SLA requirements and the critical need for guaranteed response times and quick issue resolutions, 24/7. Our leading enterprise support plans extend to various hosting options, with 99.9% uptime and 24/7 access to friendly and knowledgeable experts via phone, email or live chat.

Orchestration Across Tools and Clouds

In addition to the newly added Open Source tools, Git and Gerrit, discussed in this document, TeamForge has integrations with many other Open Source and commercial development tools including, ReviewBoard, Black Duck Code Sight, and Jenkins/Hudson. In its most recent release, TeamForge provided significant enhancements to the Jenkins/Hudson integrations and has extended its cloud capabilities with online code backups to CloudForge.

For more information on TeamForge and all of its features, integrations and capabilities visit <http://www.collab.net/products/teamforge> and <http://visit.collab.net/teamforge6.2.html>.

About CollabNet

CollabNet is a leading provider of Enterprise Cloud Development and Agile ALM products and services for software-driven organizations. With more than 10,000 global customers, the company provides a suite of platforms and services to address three major trends disrupting the software industry: Agile, DevOps and hybrid cloud development. Its CloudForge® development-Platform-as-a-Service (dPaaS) enables cloud development through a flexible platform that is team friendly, enterprise ready and integrated to support leading third party tools. The CollabNet TeamForge® ALM, ScrumWorks® Pro project management and SubversionEdge source code management platforms can be deployed separately or together, in the cloud or on-premise. CollabNet complements its technical offerings with industry leading consulting and training services for Agile and cloud development transformations. Many CollabNet customers improve productivity by as much as 70 percent, while reducing costs by 80 percent.

For more information, please visit (www.collab.net).