

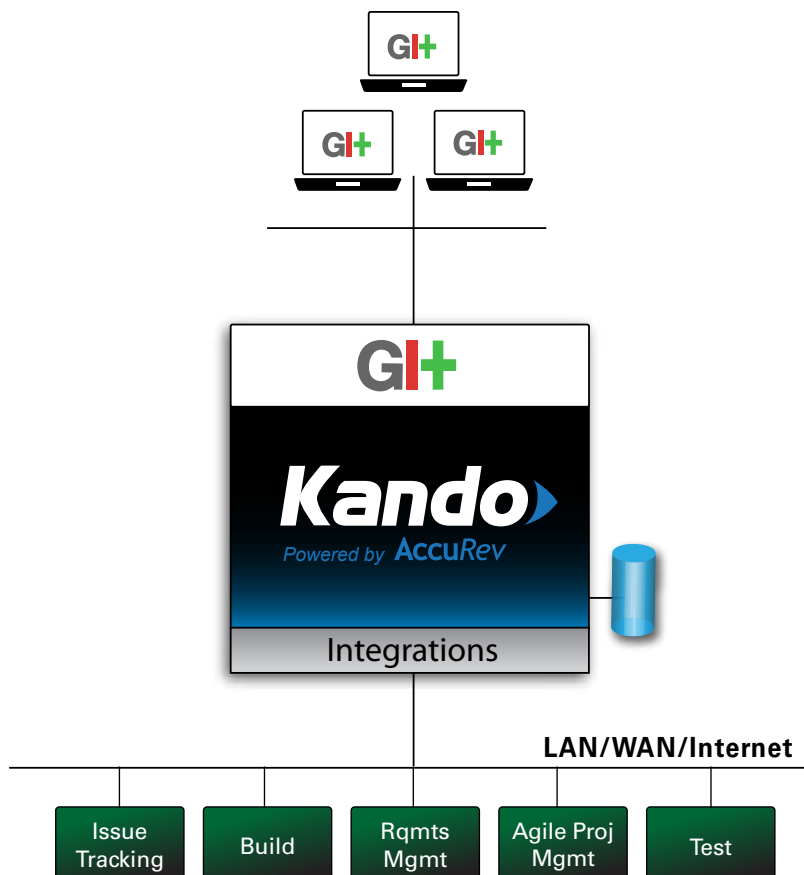
Kando

As Git adoption within enterprises grows, these organizations look to embrace the popularity of Git among developers. The performance, flexibility, and developer-friendly features of Git have made it a prevalent version control tool among distributed teams and for developers working on open source projects. Often large and complex enterprise software development environments require even greater levels of security and process management.

Kando provides developers the freedom to use Git without compromising the benefits of an enterprise class Software Change and Configuration Management (SCCM) platform. The power and flexibility of Git can now be augmented with security, auditability, and development process visualization.

How does it work?

An administrator designates Git repositories to which developers push and pull. With Kando, that administrator maps Git branches to streams (intelligent code configurations) to provide workflows. This enables development teams to manage and visualize relationships between Git branches and repos with integrated issue tracking and security.



Features

- Visualize and integrate advanced workflows into your development process using Git
- Authentication and support for LDAP and Microsoft Active Directory
- User and group-based access control security measures
- Fully integrated issue tracking system
- Change packages and dependency analysis for issue-based development
- Any branch in a Git repository can be mapped to a powerful stream (intelligent code configurations)

Benefits

- Visualization and drag-and-drop control of development process
- Enterprise class product security
- Audit trail and compliance: rebuild any release, anytime, Sarbanes-Oxley
- Developers who are happy with Git continue to use Git natively
- Introduce Kando into a project using Git without disruption
- Enterprise support and services



Process Visualization

Unlike typical Git repository visualization tools, Kando provides a unique visual representation as well as dynamic graphical control of all work in progress for your entire global development organization. This eliminates the hand-scripted and error-prone process of maintaining the hierarchy outside of the SCM system, as is commonly done with separate tools such as Visio® or on a whiteboard. Additionally, all of this functionality is available from the command line interface for maximum power and flexibility.

Security with Access Controls for Users and Groups

With Kando, administrators can now create access control lists (ACLs) for specific Git users and groups providing the ability to restrict access to certain parts of the repository. Kando's graphical interface for ACLs makes it easy to manage access for large groups of users without having to edit text documents. Through the Kando server, Git users can now be authenticated with the enterprise's LDAP or Microsoft Active Directory.

Requirements Traceability:

Kando's Change Packages makes it easy for developers to work at the task-based level. Integrated issue tracking enables issues and features to be grouped together, and differencing between releases can be done at the feature/bug/ patch level instead of just the file level. Change packages are integrated with issue tracking, and changes can be checked in or reverted by issue, supporting an ideal granular management of software change for a software development process.

Audit Compliance (Sarbanes-Oxley)

Because all changes made to a Git repository are stored on the Kando server, all processes and operations are TimeSafe®, guaranteeing reproducibility of the source base and enabling a strong and traceable audit trail. In addition, all changes to elements in a project are atomic transactions, applied in their entirety or not at all, avoiding the possibility of broken builds or indeterminate states due to the SCM tool. In support of Sarbanes-Oxley, the ability to rebuild any release at any time is critical; and because all operations are TimeSafe, changes may be appended, but history cannot be modified, ensuring absolute reproducibility of any build at any time.

Integrated SCM Best Practices

With the Kando server, Git environments benefit from integrated SCM best practices which allow easy mapping to the optimal process model for the organization. These best practices include built-in advanced parallel development capabilities that scale with your team's changing business requirements, enabling you to realize the most appropriate development process for these requirements.

“We've seen a recent push towards open source tools in the software development space, primarily because of the low cost of acquisition and developer preferences. While these tools provide capable functionality for smaller and medium-sized teams, they are often unable to meet the needs of larger enterprises and complex software development environments without further customization and scripting. An alternative solution to this problem that we have seen in the last year is combining these open source tools with commercial solutions to meet specific organizations software development and ALM requirements.”

David Norton, Gartner

Technical Requirements

Component	Supported Configuration
Operating System	Server: Linux kernel versions 2.4.9+, RedHat AS/ES 3+ (Intel and AMD) Client: Any operating system
SSH	Open SSH 5.0 or later
Browser	Firefox, Chrome, & Internet Explorer
Git	1.74.1 or later
Java	Java 1.6

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