TeamForge Integration with GitHub and Jenkins

TeamForge is a modern, web-based Application Lifecycle Management (ALM) system from CollabNet. It provides integrated capabilities for planning and tracking of complex application delivery projects. By integrating TeamForge with GitHub and Jenkins, teams in the delivery ecosystem can create end-to-end traceability for each work-item and automate certain tasks that can, otherwise, consume manual effort hours.

This, in turn, helps in delivering a high-quality product to customers at a faster pace.

Integration overview

In an Application Lifecycle Management (ALM) ecosystem, the choice of systems and the collaboration between the cross-functional teams play a great role. While the choice of systems impacts the productivity of a team, the cross-functional collaboration helps the teams get complete context of the business requirements.

Best-of-breed systems such as TeamForge, GitHub, and Jenkins, all stakeholders get real-time visibility into the commits made by the development team. It is also easier to enforce authentic commits against each work item and access the changes/edits made to the commit files from TeamForge itself.

How OpsHub Integration Manager integrates TeamForge, GitHub, and Jenkins

OpsHub Integration Manager integrates TeamForge and GitHub. The details of commits made in GitHub against a workitem ID in TeamForge can be tracked from TeamForge itself. Therefore, it's easier to track details such as 'who did the commit?', 'when was the commit done?', and 'which part of the code was committed?' for each commit. The integration of Jenkins with TeamForge and GitHub helps in bringing automation in the process. For example, Jenkins automates the closure of TeamForge workitem on a successful code commit in GitHub.

How TeamForge + GitHub integration is beneficial for an enterprise

Access to commit details such as commit trends, number of files changes, etc. help identify quality risks on critical backlogs

Enables automated continuous integration & continuous delivery

Helps meet all regulatory compliance standards by enforcing commit rules against TeamForge

Commonly synchronized entities between TeamForge and GitHub

All System/Custom Tracker Types, Planning Folders, Teams

Commit Information
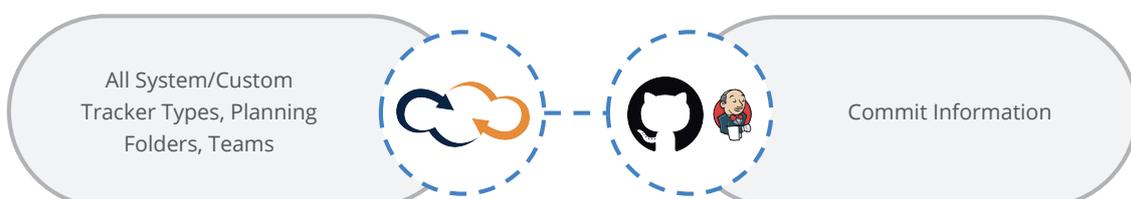
Benefits of integration for TeamForge and GitHub users

TeamForge users	GitHub users
Reduced dependency on manual communication to track the completion of a task	Each commit can be traced back to its respective workitem at any given point in time from GitHub itself
Visibility into the volume, quality of commits, and commit trends in real-time	Enforce authentic commits by applying pre-commit checks

Features of OpsHub Integration Manager

Bi-directional sync with conflict resolution
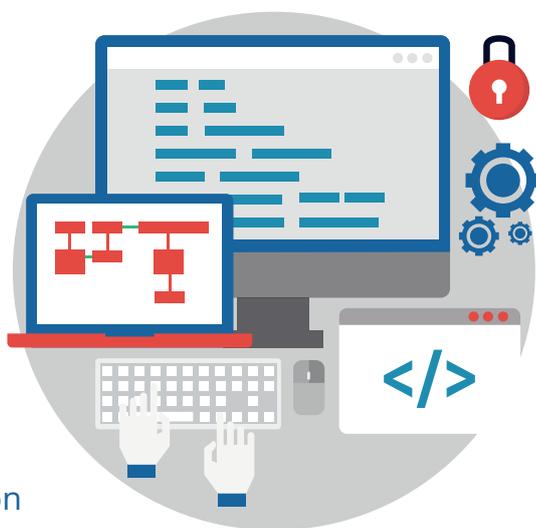
Support for the largest number of entities

Database-class reliability and recovery

Support from 50+ systems and growing

History preservation and Process customization

Pre-requisites to run OpsHub Integration Manager

Supported Operating Systems

Windows
- Windows Server 2008 R2 and above (64 bit)

Linux
- RHEL 5.2 + (64 bit), RHEL includes Cent OS and Fedora

Database:
- MySQL Server, MS SQL, Oracle, HSQLDB

Supported System Versions

TeamForge
- 17.11

GitHub
- From 10.x to 20.x

Jenkins
- Tested on 1.617, 2.7.1
  [1.652 Jenkins Version is not supported]