

GitHub Integration with Rally Software & Jenkins

The integration of Rally Software with GitHub and Jenkins gives the development team complete control over the codes being committed in the source code repository. It also creates complete traceability for all workitems in Rally Software. With complete traceability for each workitem in the ecosystem, it is easier for enterprises to fulfil compliance requirements.



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 brings in collective wisdom to take better decisions, faster.

Best-of-breed systems such as Rally Software, Jenkins, and GitHub bring rich functionalities to the ecosystem. When GitHub is integrated with Rally Software and Jenkins, all stakeholders have 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 Rally Software itself.

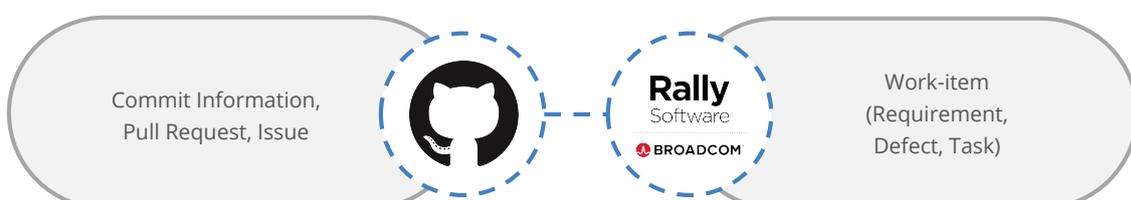
How OpsHub Integration Manager integrates GitHub, Rally Software, and Jenkins

OpsHub Integration Manager integrates Rally Software with GitHub and Jenkins. It ensures that all data is available to each user, in that user's preferred system, with full context, in real-time. All the details related to a commit made against a work-item in Rally Software can be tracked from Rally Software itself. For example, for each commit that development team makes in GitHub, GitHub synchronizes a 'commit entity' linked to the specific requirement id back to Rally Software. Each 'commit entity' includes information such as 'who did the commit?', 'when was the commit done?', and 'which part of the code was committed?'. The integration of Jenkins also ensures elimination of developer's effort to close Rally Software workitem by automating the state transition on GitHub commit.

How GitHub + Rally Software + Jenkins integration is beneficial for an enterprise

- Track commit volume, track commit trends and edits/changes to commit files in real time
- Enforce authentic commits to make sure each commit is happening against a scheduled and open workitem
- Eliminate manual effort to close Rally Software workitem by automating the state transition on GitHub commit

Commonly synchronized entities between GitHub, Rally Software and Jenkins



Benefits of integration for GitHub and Rally Software users

GitHub users	Rally Software users
Each commit can be traced back to its respective workitem at any given point in time from GitHub itself	Complete traceability from Rally Software to source code in GitHub
Enforced checkpoints ensure that no mandatory steps/checks are missed while making a commit – this leads to high success rate for commits	Visibility into the volume, quality of commits, and commit trends in real-time
	Reduced dependency on manual communication to track the completion of a task

Features of OpsHub Integration Manager



Bi-directional sync with conflict resolution



Support for the largest number of entities



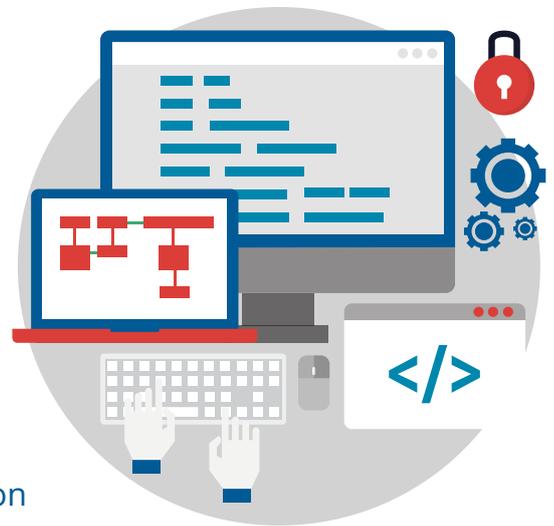
Database-class reliability and recovery



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



For the latest supported versions of the systems mentioned in the datasheet, refer [here](#).