

IBM ClearCase Integration Adapter Datasheet



A SNEAK PEEK

Kovair ClearCase Integration Adapter lets you integrate ClearCase with a wide array of ALM tools, such as JIRA, QC, and SharePoint. By integrating ClearCase with these tools, software development teams can easily collaborate on projects regardless of whether they are located within the same department or geographically distributed.



BENEFITS

- ❖ Ensures better control over software development.
- ❖ Enhances collaboration between QA and Development teams regardless of the tools they are using.
- ❖ Helps you get granular visibility of the valuable software assets that teams across your organization are building and maintaining, from the tool of your choice.
- ❖ Ensures cross-tool visibility, requirement traceability, and process automation.
- ❖ Allows you to track code units corresponding to other artifacts, such as defects and change requests recorded in other integrated tools.
- ❖ Allows you to access specific versions or latest version of code snippets in ClearCase from other development tools.

OVERVIEW

The evolving organizational need to deliver software solutions sooner, while maintaining flexibility and compliance, calls for a powerful cross-platform Software Configuration Management (SCM) system that can protect critical software and lifecycle assets, provide audit trail for changes, and support parallel development and code reuse.

ClearCase includes the requisite tools for supporting SCM. It forms the base for configuration management for many large and medium sized organizations and can handle scalability issues with ease. As an SCM tool, ClearCase is ubiquitously used as it provides the major SCM capabilities, such as version control, workspace management, parallel development support, and build auditing.

However, to maximize the returns from your ClearCase investment, you must extend its functionality by integrating it with IDEs and tools from other domains, such as Requirement Management, Test Management, Change Management, and Defect Management. ClearCase naturally integrates with IBM offerings in these domains, such as Rational ClearQuest, Rational Software Architect, and Rational Team Concert. However, with organizations opting for a heterogeneous software development environment, ClearCase is often required to integrate with other best-of-breed ALM tools.

Kovair ClearCase Integration Adapter

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Kovair provides a vendor-neutral ALM platform called Kovair Omnibus Integration Platform to which you can connect your ClearCase instance using Kovair ClearCase Integration Adapter. This allows ClearCase to control the access to software assets originating in other integrated tools and enables driving a consistent organization-wide process across all silos of software development.

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FEATURES

- ❖ Files can be added or checked out directly from within IDE to accomplish an assigned job.
- ❖ ClearCase files and file versions can be linked with artifacts of other tools.
- ❖ Events in ClearCase can trigger workflows in other tools.
- ❖ Outward publishing of SCM events occurring inside ClearCase.
- ❖ Consolidated data collection and reporting to aide project assessment.
- ❖ Easy to configure and customize using web based codeless configuration screens.
- ❖ Conflict detection and mediation.

SYSTEM REQUIREMENTS

- ❖ **Operating Systems:** Windows 2008 Server
Windows 2008 Server R2 Server
- ❖ **Databases:** SQL Server 2008
SQL Server 2008 R2, (Developer, Standard and Enterprise) or Higher
Version, My SQL 5.5, Oracle 10g
- ❖ **IIS:** IIS 7.0 or 7.5
- ❖ **.Net Framework:** 4.0 or Higher

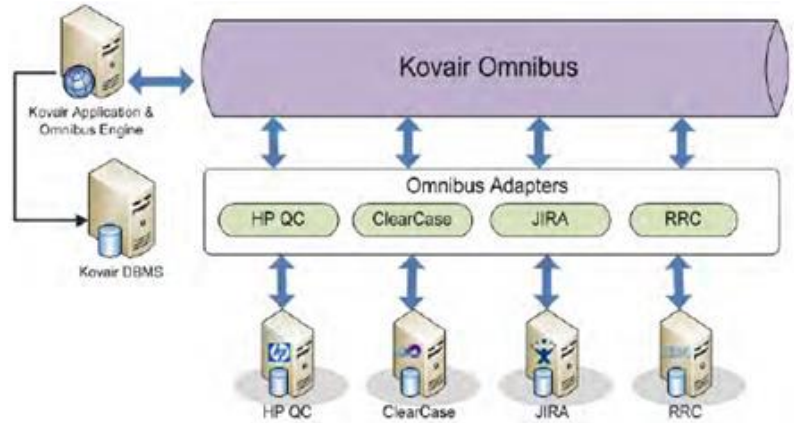


Fig: Integrating ClearCase with tools like JIRA, HP QC, RRC through Kovair Omnibus

Currently, Kovair Omnibus supports ClearCase Version 7.0.0.0, 7.1.0.0. For future releases, please visit [this page](#).

WHY INTEGRATE CLEARCASE WITH KOVAIR

- **Streamlined Development** - Kovair provides several adapters and plugins for creating a streamlined development environment wherein each artifact is passed through an automated review and approval process, and tasks corresponding to those artifacts are automatically generated for the appropriate stakeholders.

The plugins for IDEs allow developers to access tasks and other tools' artifacts directly from their preferred IDE. For example, when ClearCase is integrated into the ALM system by means of Kovair ClearCase Integration Adapter and the Visual Studio plugin is also installed, developers can add or check out files directly from their Visual Studio IDEs.

In the integrated environment, ClearCase events like check-in and check-out are propagated to other tools. Visibility is gained into specific files and file versions that are being worked upon for a particular requirement, change request, or defect. Also, activities can move bi-directionally into development and testing tools. As a result, different stakeholders can get visibility into changes without having to navigate away from their preferred tool environment.

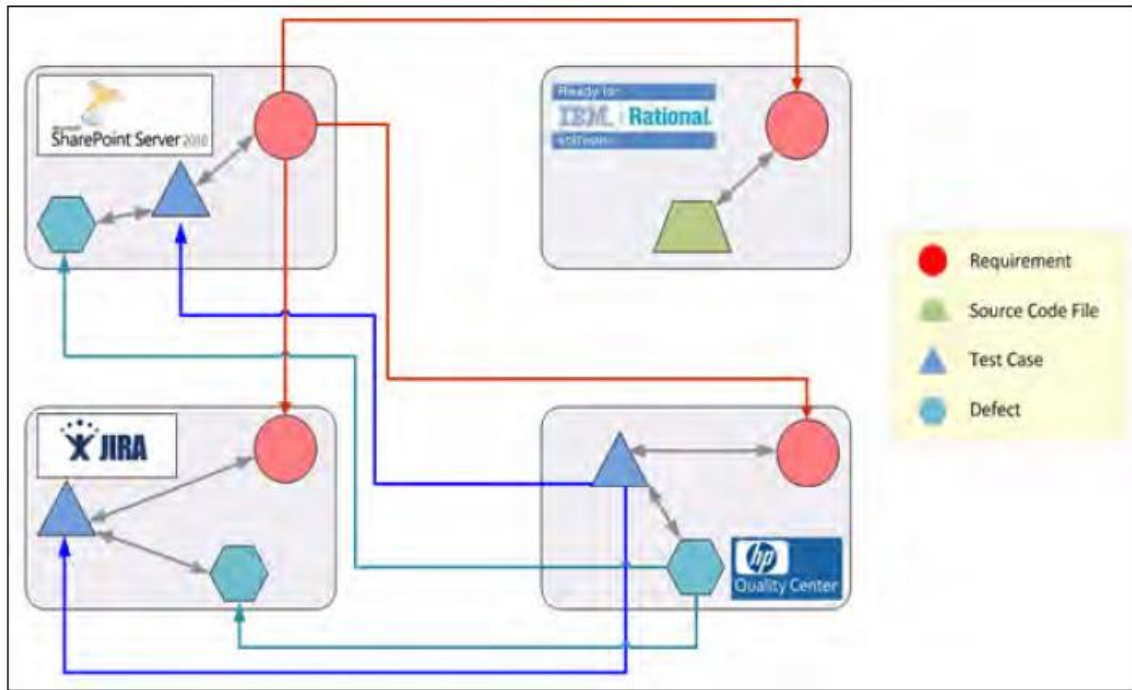
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WHY INTEGRATE CLEARCASE WITH KOVAIR (Contd.)

- **Version Control** - To create applications and fix bugs rapidly, you must ensure that you are working on the right versions of the right artifacts. With ClearCase integrated into your development environment, you can efficiently manage and control source code, libraries, documents, binaries, or any other project artifact originating in any tool connected to the Kovair Omnibus. ClearCase integration lets you see the version, branch, and files you are working; link file versions with other artifacts; create and delete branches; list version histories; and compare and merge versions.
- **Enhanced Collaboration** - With ClearCase integrated into the development environment, multiple developers can work in parallel on the same code base or release and resolve conflicts easily, directly from their preferred IDEs. In ClearCase, Development and Integration stream models define how and when developers deliver code changes. ClearCase accepts the uncontested changes and highlights conflicting changes for faster resolution.
- **Improved Productivity** - ClearCase integration ensures that developers do not have to leave their IDE to look for the required code files. It ensures that developers do not work on the wrong version of code. It facilitates parallel development, code reuse, and activity based change management. All this leads to a much improved productivity.
- **End-to-End Traceability** - End to end traceability can be achieved only when all project artifacts are linked to each other by direct or nested relations. When ClearCase is integrated through Kovair Omnibus, developers can link requirements and issues from other tools to code files, while testers can link issues to test cases and requirements thereby creating a complete chain of traceable artifacts.

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Examples of IBM ClearCase Integration



ClearCase-JIRA-QC-SharePoint Integration

As shown in the above example, you can integrate ClearCase with SharePoint, QC, and JIRA so that requirements in SharePoint are replicated and linked with: source code files in ClearCase, test cases in QC, and defects in JIRA. Also, test cases from QC and defects from JIRA can be replicated in SharePoint.

Note: The adapter as developed and offered by Kovair follows the subject tool's standard specifications. Any deviations from the tool's typical use pattern may not have been anticipated in our off-the-shelf product. For any customization or special configuration needs, please contact Kovair Sales - sales@kovair.com
 Kovair Software Inc.: Kovair is a California based software product company specializing in the domain of Application Lifecycle Management (ALM). Kovair's focus on integrating third party best-of-breed ALM tools enables creation of applications in a synchronized tools environment.

Call us: 408 262 0200 Extn. 1

US Corporate Office:

Kovair Software, Inc.
 2603 Camino Ramon, STE 200
 San Ramon, CA 94583
 1.408.262.0200 (T)

India Registered Office:

Kovair Software Pvt. Ltd.
 PTI Building, 6th Floor, DP- 9, Sector-V
 Salt Lake City, Kolkata – 700091
 91-33-4065 7016 / 17 / 18 / 19 (T) Extn. 109

Bangalore Office:

Kovair Software Pvt. Ltd.
 Samad House, #402, 4th B cross, 7th A
 Main, HRBR Layout, Kalyan Nagar,
 Bangalore- 560043
 91-95350 92589 (T)