

MS TFS Integration Adapter Datasheet

A SNEAK PEEK

Kovair TFS integration Adapter integrates Microsoft TFS with other best-of-breed ALM tools and provides a centralized view of the Unified Software Development Process.

BENEFITS

- ❖ 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 TFS from other development tools.
- ❖ Allows you to manage organization-wide macro processes cutting across various tools.
- ❖ Ensures cross-tool visibility, requirement traceability, and process automation.
- ❖ Helps you generate accurate cross-tool reports regarding project status with a single mouse click.
- ❖ 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.

OVERVIEW

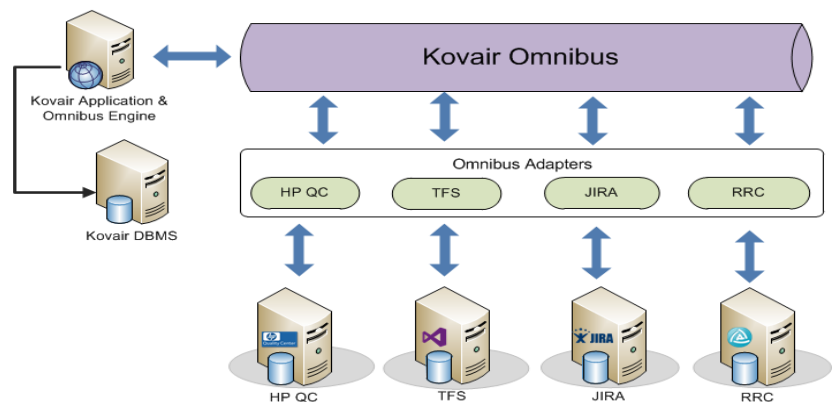
In today's software industry, collaborative software development is the key to drive innovation, achieve profitable growth and increase efficiency. Collaboration is required because Software Delivery is spreading across departmental, geographic and corporate boundaries thereby leading to a proliferation of disparate tools, processes, and cloud usage.

Team Foundation Server (TFS) automates the Software Delivery process and enables you to manage the software development projects throughout the application lifecycle. It provides the commensurate communication and collaboration that you need to ensure that your software gets built fast and gets built right.

KOVAIR MS TFS INTEGRATION ADAPTER

'Kovair TFS Integration Adapter' lets you integrate TFS with a wide array of ALM tools like JIRA, QC, SVN, and Salesforce. By integrating TFS with coding and testing tools, software development teams can easily collaborate on projects regardless of whether they are located within the same department or geographically distributed.

Kovair provides a vendor-neutral ALM platform called Kovair Omnibus Integration Platform to which you can connect your TFS instance using Kovair TFS Integration Adapter. This allows the TFS work items to be visible from other best of breed tools being used by other teams and enables driving a consistent organization-wide process across all silos of software development. Kovair also provides adapters for connecting other ALM tools like HP QC, JIRA, and RRC to Omnibus, as shown in the following figure:



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FEATURES

- ❖ Files can be added or checked out directly Bi-directional synchronization of TFS work items with other tools
- ❖ Outward publishing of SCM events occurring inside TFS
- ❖ Consolidated data collection and reporting to aide project assessment
- ❖ Easy to configure and customize using web based codeless configuration screens
- ❖ Conflict detection and mediation
- ❖ Support for complex transformations
- ❖ Enables events in TFS to trigger workflows in other tools



SYSTEM REQUIREMENTS

- ❖ **Operating Systems:** Windows 2008 Server
Windows 2008 Server R2 Server
- ❖ **Databases:** SQL Server 2008 SQL Server 2008 R2, (Developer, Standard and Enterprise)
- ❖ **IIS:** IIS 7.0 or 7.5
- ❖ **.Net Framework:** 4.0 or Higher
- ❖ **Client:** Team Explorer Client

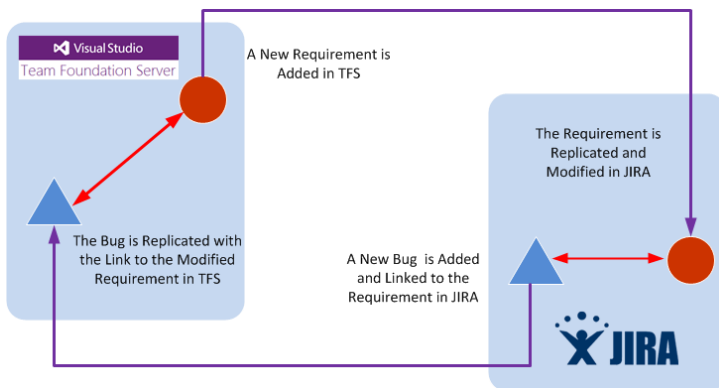
WHY INTEGRATE MS TFS WITH KOVAIR

- **Source Code Management** - In software projects, source code files change over time; new files are created and old files are deleted. Typically, several developers work from different workstations on the same and/or different files. As a result keeping track of every change can become a tedious task. A Source Code Management (SCM) system like TFS allows multiple developers to work on the same project/ project files at the same time. When TFS is integrated into the ALM system by means of Kovair TFS Integration Adapter, TFS 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, work items can move bi-directionally into development and testing tools. As a result, different stakeholders can get visibility into TFS changes without having to navigate away from their preferred tool environment.
- **Version Control** - It is common to have multiple versions of the same software deployed at different sites. Often, bugs are present only in certain versions. Therefore, for the purpose of locating and fixing bugs, it is imperative to keep multiple versions of the software well within the reach of the developers. TFS integration addresses this requirement and allows developers to access specific versions or latest version of code snippets from their development tools.
- **Enhanced Collaboration** - TFS itself is intended for collaborative software development. Kovair TFS Integration Adapter and Omnibus adds to the value of TFS by bridging the gap between TFS and ALM tools that are not naturally compatible due to vendor issues or platform dependencies.
- **Data Collection and Reporting** - TFS provides data collection and reporting features that aid in the assessment of a project's health. Integration of TFS with other tools like JIRA and HP QC ensures that data about defects and test cases can also be utilized to generate reports and thereby provide improved visibility into the project.
- **Streamlined Development** - In the integrated environment established by Kovair Omnibus, all the project artifacts including TFS work items can be optionally stored in a central repository that facilitates collaboration and reduces the wastage of efforts involved in transfer of information or software assets. This streamlines the development process and allows team members to deliver value rather than waste time in hand-offs between team members.

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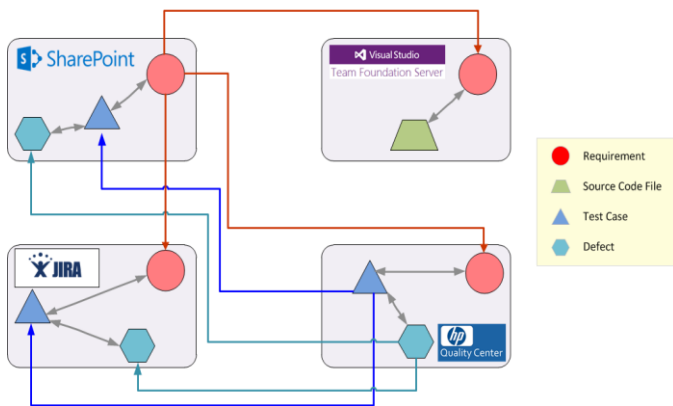
WHY INTEGRATE MS TFS WITH KOVAIR (Contd.)

- End-to-End Traceability** - Traceability is desired in any software project to ensure that the final product can be tracked back to business goals and customer requirements. End to end traceability can be achieved only when all project artifacts are linked to each other by direct or nested relations. When TFS 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.



Scenario1. TFS and JIRA Integration

As shown in the above example, you can integrate TFS and JIRA so that requirements in TFS are replicated in JIRA. While creating a bug in JIRA you can link it with the appropriate requirement. The bug, along with the linked requirement is replicated in TFS.



Scenario2: TFS-JIRA-QC-SharePoint Integration

As shown in the example, you can integrate TFS with SharePoint, QC, and JIRA so that requirements in SharePoint are replicated and linked with: source code files in TFS, 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.

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