

Case Study - Implementing a Complex Integration Use Case with the Kovair Omnibus



KOVAIR

By Kovair Marketing

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Introduction

This case study demonstrates the implementation of a complex integration use case using Kovair Omnibus. Kovair Omnibus provides the unique ability to both Sync and Link data coming from different integrated tools. The decision to use synchronization or linking is not dictated by the Omnibus platform and is left to the users based on the best fit to the required use case. The tools used in this scenario are as follows – Salesforce (Custom Force.com application), IBM Rational Team Concert (RTC), HP Quality Center (QC) and Jenkins- a build tool.

The Company

The Company is a Fortune 500 company and one of the largest independent software products corporations in the world. It is an American multinational publicly held company. The company creates systems software and applications software that runs in mainframes, distributed computing, virtual machines and cloud computing environments. Its products are used by a majority of the Forbes Global 2000 companies. It has offices in more than 45 countries.

The product delivery teams of this company were using a mix of best of breed tools from different vendors and some home grown tools to support individual phases of Software Development and delivery. The company needed an open integration framework that can connect all the engineering tools in a simple and effective manner and also seamlessly accommodate new tools in the future.

Challenges

The tools were not well connected with each other and the information flow between the tools was mostly manual - lacking coordination and synchronization. Lot of productive time was being wasted in manually synchronizing work items. The tools used were heavily customized and required tailor made integrations. Adding to the challenges was the fact that there was a large number of users and projects and the project teams were distributed. Other vendors had done Proof of Technology projects to implement the use cases and failed to satisfy the stake holders.

Kovair Solution

Kovair executed a Proof of Concept project demonstrating successfully how Omnibus can connect the tools supporting various application lifecycle phases to provide an Integrated Software Development environment for this Company. Kovair integration ensured cross-lifecycle transparency, macro and micro level process automation and correspondence of activities across disciplines. The Omnibus Platform and the required adapters for all the related tools were set up on-premise on a POC server and the Use Cases were configured on the system over web meetings. Five integration use cases defined by the Company were configured using Kovair Omnibus and demonstrated to the stakeholders of the Company. Out of these five use cases the details of one are given below –

Tools –

1. Custom Force.com application – for tracking Requirements, Epics and Stories
2. Rational Team Concert(RTC) – for tracking Tasks, Source Control, Defects
3. Jenkins – for build
4. HP Quality Center – for Test Lab, Test Cases, Defect

Use Case –

1. The use case starts after the system adds stories in RTC based on user stories in the custom Salesforce application.
2. The system replicates each RTC story in QC as a requirement.
3. For each requirement in HP QC, the system automatically creates appropriate tests and test labs in HP QC and links them with the requirement.
4. The Tester then needs to only add the Test Steps within the Tests.
5. To implement a Requirement and accomplish the corresponding task in RTC, the Developer modifies the code file associated with the RTC task and checks it in.
6. Based on the code file check-in, the system triggers a build in Jenkins and updates the build status of the Task in RTC.
7. Once the build is completed, the deployment files get dropped at the Test server automatically and the Tester executes the test lab in HP QC.
8. If the Test fails then the following takes place -
 - a. The system creates a defect in HP QC and replicates it in RTC.
 - b. The system links (OSLC) defects in RTC with appropriate tests and defects in QC.
 - c. The Developer changes the status of a defect in RTC to 'In Progress'.
 - d. The system changes the status of the corresponding HP QC defect to 'In Progress'.
 - e. The Developer modifies the code files and associates them with the Defect and checks in the code files in RTC.
 - f. Based on the code file check-in, the system triggers a build in Jenkins and updates the build status in RTC.
 - g. If the Build is successful then the system updates the status of the RTC Defect to 'Implemented'.

- h. The system also updates status of the build in the RTC Task.
 - i. The Tester executes the test lab in HP QC.
 - j. If the Tests pass then the system updates the defect status to 'Verified' and 'Resolved' in RTC and HP QC.
9. If the Tests pass then the following takes place –
- a. The RTC Task status is automatically modified to 'Done'
 - b. The RTC Story status gets modified to 'Implemented'
 - c. The User Story status in Salesforce gets updated to 'Implemented'

Result

Minimum amount of customization of the Kovair Omnibus adapters was required to achieve the tailor made integration scenario that was asked for. The installation and configuration of the software on the Customer's premises was done through screen sharing in the presence of their administrators. The codeless configuration of the Kovair Omnibus solution was also demonstrated to the administrators. The POC project was very successful and Kovair was able to demonstrate all the five use cases to the satisfaction of the stake holders. A flawless final demonstration of the use cases was held with lot of senior stakeholders of the Company where Kovair was able to win their confidence about the integration solution.

Success Highlights

- ❖ Ease of installation was liked by the stakeholders.
- ❖ Ease of mouse click configuration was liked by the stakeholders.
- ❖ Flexibility in configuration and setting up of integration business rules was appreciated by the Customer.
- ❖ The Robustness of the integration solution was tested for a few weeks without any failure.
- ❖ The ability to implement complex integration use cases without any coding was very much appreciated by the Customer.
- ❖ About 3 weeks of time was taken by Kovair to customize, install, configure and test the on-premise solution accessing real data from all the internal tools.
- ❖ No personnel from Kovair were required to visit the Customer premises on any occasion – everything was done over web sessions and VPN access to the customer's servers.

About Kovair

Kovair Software is a Silicon Valley based software product company specializing in the domain of Integrated Application Lifecycle Management (ALM) solutions and supports global software development and management. Kovair's focus on integrating third party best-of-breed ALM tools enables creation of applications in a synchronized tools environment.

Kovair has partnered with leading technology brands like Microsoft, IBM, CA, BMC and more to provide customers a wide range of integration solutions.

Product Portfolio: Kovair's flagship products **Omnibus Integration Platform**, **ALM Studio**, **QuickSync** and **Integrated DevOps** are highly preferred solutions by some of the major corporations globally.

Recognitions: The **SD Times 100** has recognized Kovair as one of the top 100 software innovators in the domain of Application Lifecycle Management. Kovair's Innovations in ALM Tools and ALM Integrations are well recognized both in the industry and by analysts at places like **Gartner** and **Forrester**.

Business Focus: Application Lifecycle Management Products and Services, Integration Platform

Industry Verticals: IT Consulting and Services, Banking and Financial Services, Telecom, Manufacturing, Networking, Healthcare, Defense and Government.

Contact: For more information about product and services contact sales@kovair.com. You may follow Kovair updates on [Facebook](#), [LinkedIn](#), [Twitter](#), [Google+](#), [Slideshare](#) and [YouTube](#).

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