White Paper - Integrity of Data Synchronization with Kovair Omnibus & Real - time Reports

KOVAIR

By Kovair Marketing

US Corporate Office

Kovair Software, Inc.
2603 Camino Ramon, STE 200,
San Ramon, CA 94583,
United States
Tel: 1.408.262.0200 Extn.1
Email: sales@kovair.com

India Registered Office

Kovair Software Pvt. Ltd.
PTI Building, 6th Floor, DP-9,
Sector – V, Salt Lake City,
Kolkata - 700091, India
Tel: 91-33-4065 7016/17/18/19
Email: sales@kovair.com

Bangalore Office

Kovair Software Pvt. Ltd.
Samad House, #402, 4th B cross,
7th A Main, HRBR Layout, Kalyan
Nagar, Bangalore- 560043, India
Tel: +91-95350 92589
Email: sales@kovair.com

Table of Contents

Introduction

With the advent of time, the degree of application complexity has increased considerably. This dictates that each phase of Development is to be managed with minimal or no margin of error. There are tools originating from multiple vendors that help accomplish this. However, the biggest challenge posed is the accuracy of information flow among the cross-functional teams working on these disparate tools.

Though a handful of tool integration solutions are available today, the question lies whether just integration is good enough to bridge the gap. Any integration without having a facility of real-time monitoring of the data progress keeps the stakeholders in the dark in terms of data sanity. This data monitoring is not only pertinent to data integration but also to data migration between these sets of tools.

Data monitoring for finding the quantity of data that got missed during data movement and data loss during integration/migration are not the only objectives; some more specificity is required. Details of the data that were to be synced, the reason and details of errors if any that occurred during the synchronization or the time interval it took for the data synchronization to occur are also very important. This is only possible if proper monitoring capabilities of data synchronization are in place in the tool.

Characteristics and Expectations from Data Monitoring

Let us discuss some of the characteristics of monitoring while dealing with an Integrated Toolset and the reasons behind each one of them.

On a **micro level** we may want to know about the specifics of the data synchronization. The monitors should give us information about the failures or delay in synchronization if at all they happen. The attributes leading to the data sync failure must be visible from the monitor itself for taking corrective action when required. It will be beneficial if the datasets that failed to be synced are made visible from the monitor to trace the missed data.

On a **higher level** a graphical data report will be quite helpful as it gives a real time information on the data synchronization. This will be helpful in quick identification of successful or failed data

synchronization between multiple tools without having to spend much time delving into detailed data logs as was the case with micro level monitoring.

At the **macro level** of monitoring, the overall statistics of all data synchronization that occurred within a certain time frame will form the basis of decision making.

Achieve all these through Kovair Omnibus

Understanding the needs and ways of monitoring, ESB architected Kovair Omnibus Integration Platform provides an off-the-shelf set of monitoring and diagnostics tools for the integration activities to ensure quality of integration and migration. Kovair Omnibus supports integration between tools through an Event Action based mechanism. That is, every time an event like data insertion or modification or deletion occurs in one tool, a similar action gets triggered in one or more target tools as per their codeless configuration done during set up based on the data synchronization needs. This mechanism is termed as Service Flow in Kovair.

Monitoring Service Flows

Kovair Omnibus having a web based interface for controlling configurations, allows users to monitor the status of each of these service flows whenever necessary.

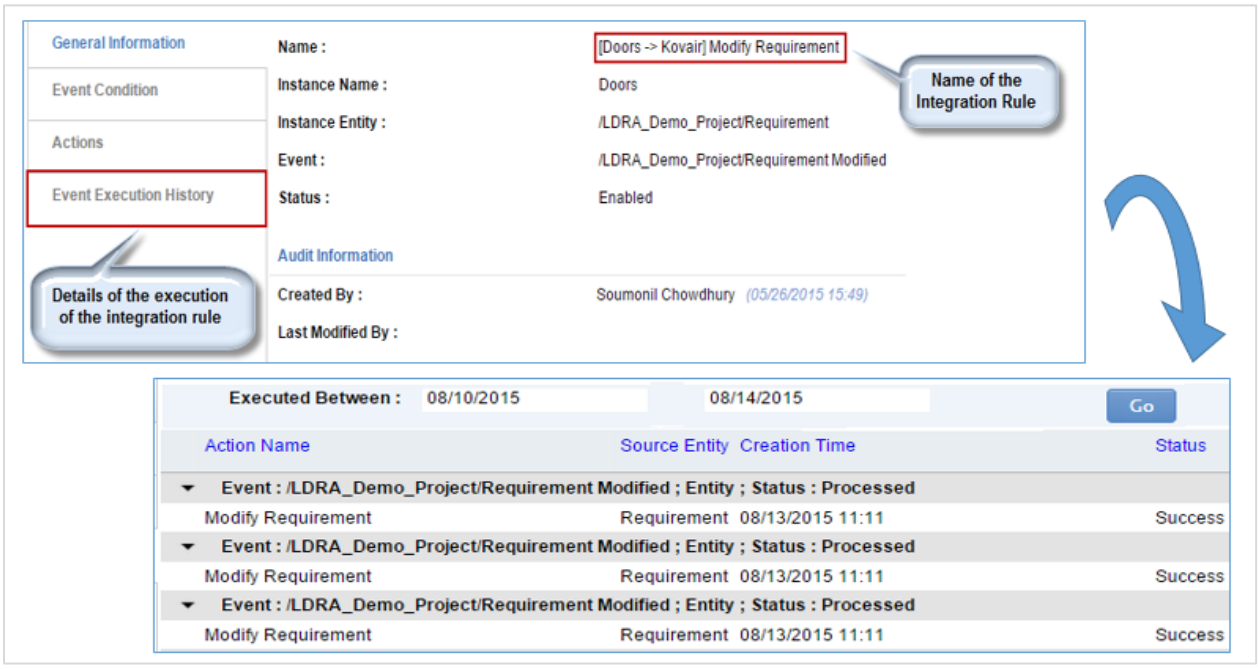

Fig 1: Details of the Execution of the Integration Rule

But what if the user needs comprehensive details about the previous and present performances of data synchronization including the contents of the data that were synchronized. Kovair Omnibus offers a detailed Event and Action Log mechanism for this purpose. The Event Logs provide Event details that took place at any Source Tool including the details of Fields' values that were to be synced to any target tool. The Action Logs on the other hand provide details of the Action that took place along with the data which were created/modified in the target tool over any particular date range.

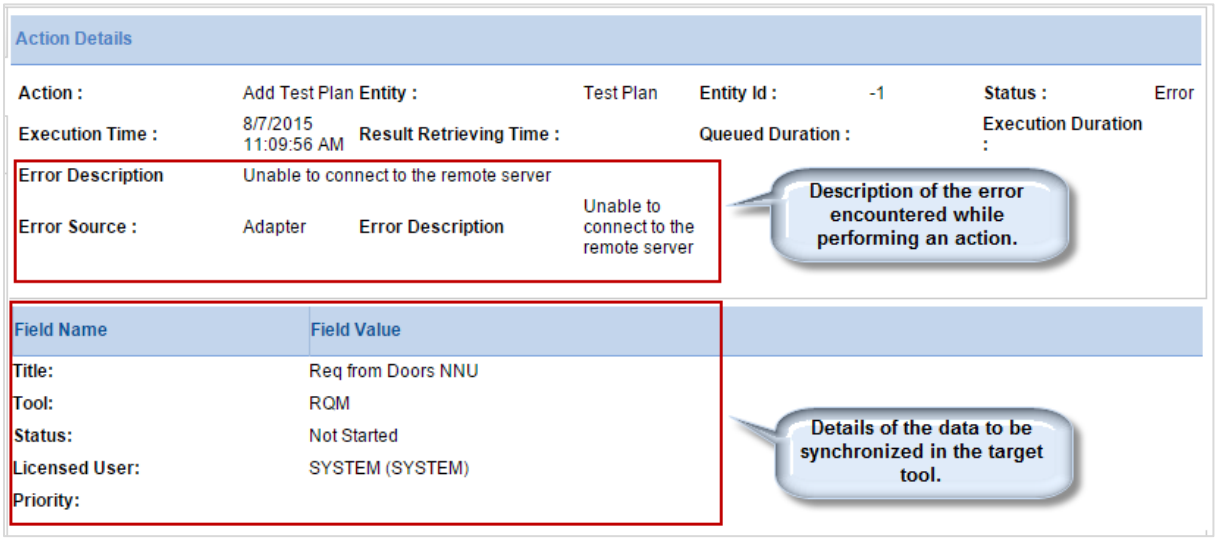

Fig 2: Details of the error encountered while performing data synchronization

Monitoring Data Collection

So far we have seen from the previous scenarios that all the data that are moving in between the different tools can be monitored using the textual interface of the Omnibus Event and Action Logs. However, what if we need to check if the data to be synchronized have been trapped from the source tool. For achieving this we have the Logging mechanisms for each of the tool adapters/connectors which can give us the detailed history of data collection from the source tool based on any event triggers. All this information is readily accessible without leaving the Kovair Application environment.

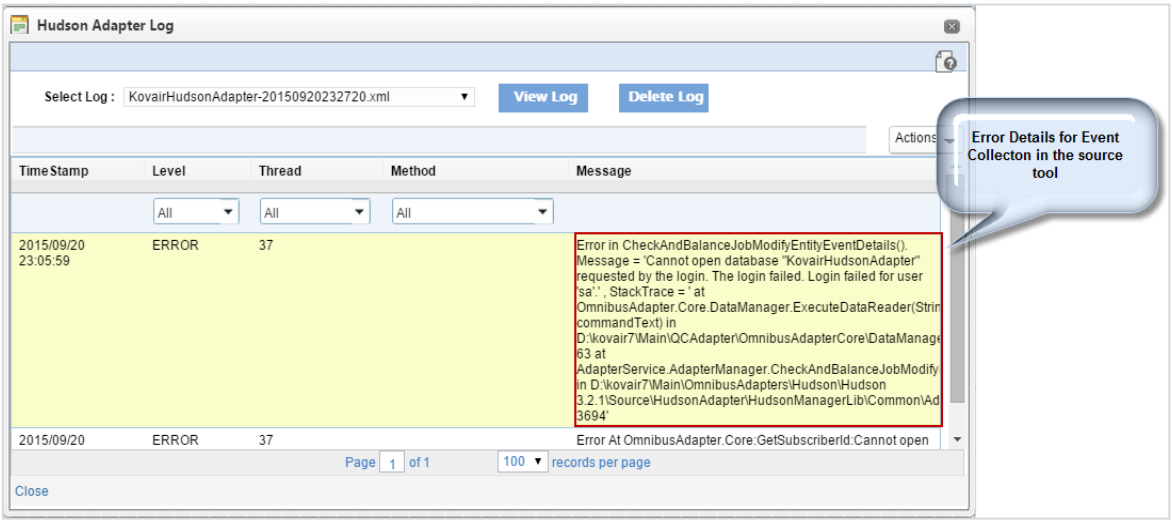

Fig 1: Error description from the Adapter Log

The Omnibus Monitor

The Omnibus Monitor gives a graphical view for tracking the data synchronization in real time as and when they occur. Any successful integration action is identified by a Green dot , the Failure is represented by a Red Dot and a link symbol is used to represent synchronization of relationship between objects that are occurring. Clicking on any part of the diagram will give the basic information of the time, status and the type of event/action that were performed.

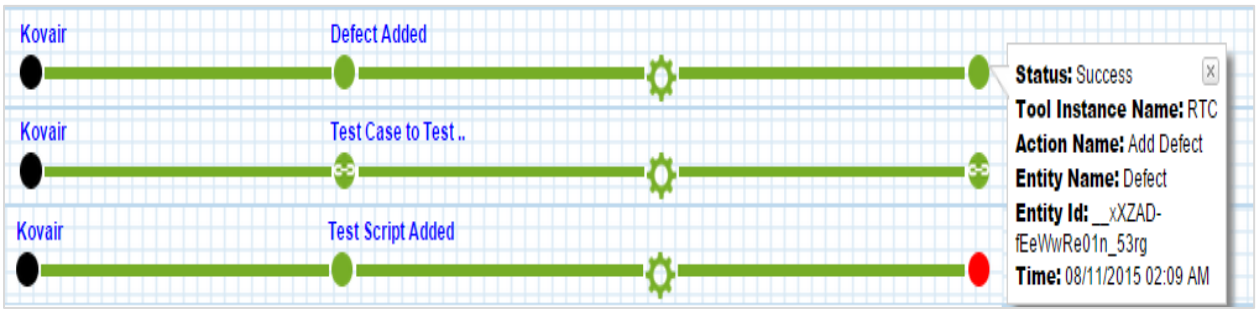

Fig 2: The Omnibus Monitor in Action

Integration Statistics – Single menu troubleshooting

On an intermediate level between the micro and macro level monitoring, Kovair Omnibus provides the Integration Statistics facility which gives an overview about the number of times the events and actions done performed by the corresponding tool adapter/connector. The total number of successful or failed data collection or data execution into the specified tool can be viewed from this metrics report.

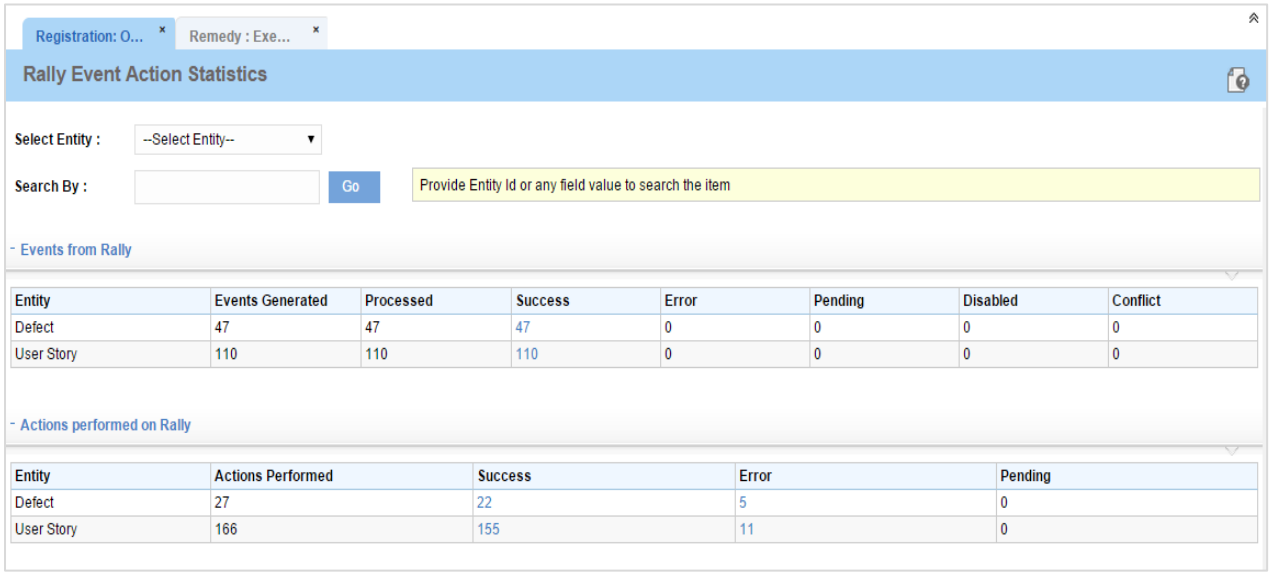

Fig 3: The Integration statistics section

Dashboards for Monitoring

Kovair Omnibus Integrations Platform addresses the need for macro level monitoring of data synchronization with a dashboard for viewing the broad level quantification of all the integration actions performed in any time frame. This dashboard includes several kinds of reports and metrics which provide information about the successful vs failed synchronization attempts. This dashboard also allows users to see the average time taken (in secs) per transaction between a set of tools.

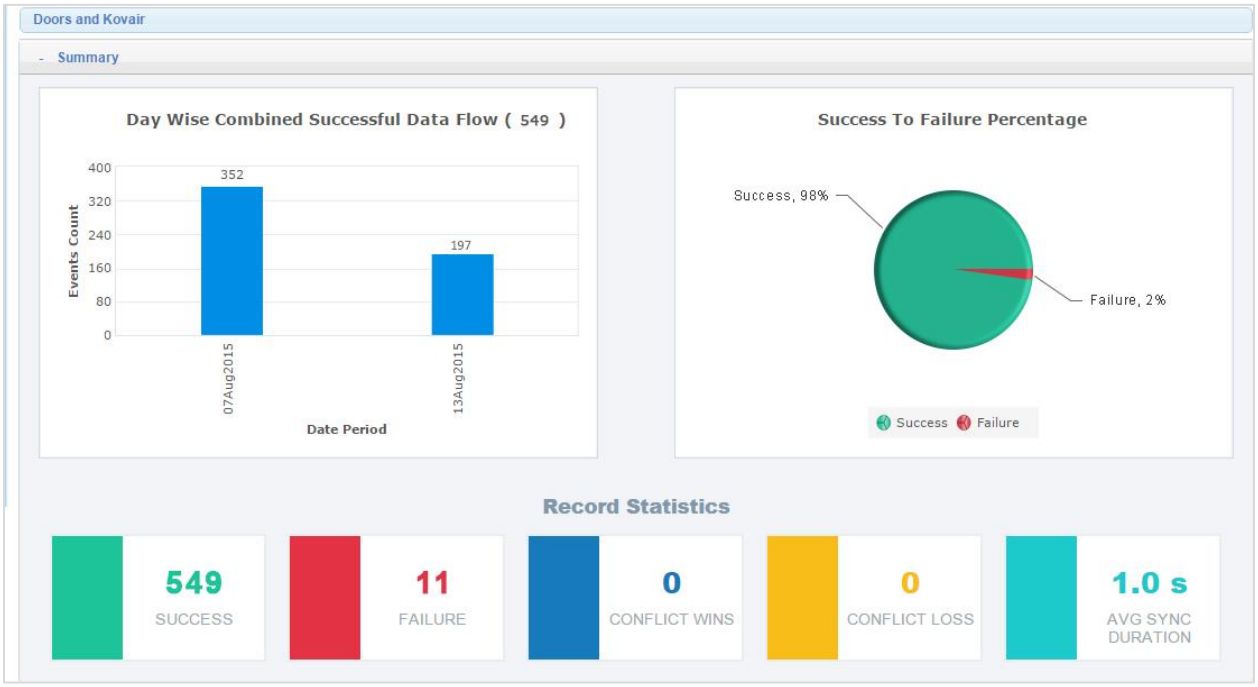

Fig 4: Omnibus Data Sync Statistics

The ESB architected Kovair Omnibus platform as described above, not only allows different tools to communicate with each other but also facilitates different types of real-time monitoring. This provides total confidence to the stakeholders and provides them the details of the correctness of data getting transmitted between different tools.

To know more about data monitoring capabilities of Kovair please register for a live demo or visit our website page on Kovair Omnibus.

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.

Important Links: Why Kovair| Management | Product Updates | Tool Integrations | Product Brochure | Videos | Datasheets | White Papers | Case Study | Technical Documents| Presentations | Services | Blog | Press Releases | Events | Customers | Partners | Support | Contact | Site Map

Global Technology Partners

Memberships and Associations

© 2017, Kovair Software, Inc. All Rights Reserved. The Integrated ALM Company.