

# Travel and Transportation Automated Testing and Framework

Automation: Cost Benefits to Real Time Reports

## Who is the Client?

The Client is the official European distribution channel of a large European country's railways for sales of high-speed and conventional rail travel throughout the country as well as the rest of Europe.

Test Case ID	Test Case Name	Test Case Description	Test Case Status	Test Case Priority
TC001	Home Page Test	Verify that the home page is accessible and displays the correct information.	Pass	High
TC002	Search Functionality	Verify that the search function works correctly and returns relevant results.	Pass	High
TC003	Booking Process	Verify that the booking process is seamless and allows users to complete their reservation.	Pass	High
TC004	Payment Gateway	Verify that the payment gateway is secure and processes transactions correctly.	Pass	High
TC005	User Account Management	Verify that users can create, update, and delete their accounts successfully.	Pass	High
TC006	Mobile App Integration	Verify that the mobile app is integrated with the web application and provides a consistent user experience.	Pass	High
TC007	Performance Testing	Verify that the application can handle high traffic loads and maintains acceptable response times.	Pass	High
TC008	Security Testing	Verify that the application is secure and protected against common security vulnerabilities.	Pass	High
TC009	Accessibility Testing	Verify that the application is accessible to users with disabilities and complies with WCAG guidelines.	Pass	High
TC010	Integration Testing	Verify that the application integrates correctly with external systems and services.	Pass	High

Over 50% reduction  
in man hours

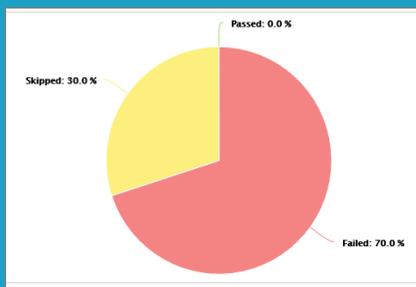
## What services did Data-Core provide?

Data-Core developed automation framework so the Client can easily keep track of regression test cases, which verifies that software previously tested and in use is performing as it should after being interfaced with additional software. This was done for all of the Client's rail routes.

Using the framework developed by Data-Core, the Client reduces both time and man hours. When done manually, high priority Non-Regression Test cases may take 40 hours weekly to complete, with additional hours needed for the balance of cases. Using Data-Core's framework, the Client requires less than half the time to create data and cover the routes. The rest of the work is done by the framework, which uses minimal man hours.

SELENIUM Automation with Github – Used for Automation testing activities for all UI applications, this integration enhances the quality of each patch and release.

Runscope Automation – Used for Automation testing activities for all the APIs, allowing schedules to be activated and results made easily accessible. If there are any issues, clients are automatically notified by email.



Test Case ID	Test Case Name	Test Case Description	Test Case Status	Test Case Priority
TC001	Home Page Test	Verify that the home page is accessible and displays the correct information.	Pass	High
TC002	Search Functionality	Verify that the search function works correctly and returns relevant results.	Pass	High
TC003	Booking Process	Verify that the booking process is seamless and allows users to complete their reservation.	Pass	High
TC004	Payment Gateway	Verify that the payment gateway is secure and processes transactions correctly.	Pass	High
TC005	User Account Management	Verify that users can create, update, and delete their accounts successfully.	Pass	High
TC006	Mobile App Integration	Verify that the mobile app is integrated with the web application and provides a consistent user experience.	Pass	High
TC007	Performance Testing	Verify that the application can handle high traffic loads and maintains acceptable response times.	Pass	High
TC008	Security Testing	Verify that the application is secure and protected against common security vulnerabilities.	Pass	High
TC009	Accessibility Testing	Verify that the application is accessible to users with disabilities and complies with WCAG guidelines.	Pass	High
TC010	Integration Testing	Verify that the application integrates correctly with external systems and services.	Pass	High

# Travel and Transportation Automated Testing and Framework

## What other services did Data-Core provide?

Data-Core has developed the automated testing framework for the Client's travel management software web services using SOAPUI.

Phase 1: The project was managed with test step and tear down level groovy script. A customized HTML and Excel report is generated at the end of execution, and xml request and responses are saved for failed scenarios.

Phase 2: Data-Core completed a second version of the project with Junit framework and Maven integration using Eclipse editor. Properties are created to fetch different environments and SoapUI xmls during runtime. While the test is run, all test cases are executed automatically. After the execution a test report is created and the results are sent to specified email IDs.



## Solution for European railway service giant

## In Summary...

Data-Core is maintaining the test assets of the project in SQUASH TM tool. It has enabled the Client to get real-time details of all testing activities. Data-Core is also providing the back-compliance, migration and roll-back testing during each release, which allows for a smooth transition to production for each release.

For both the automation framework and the Euronet applications, Data-Core delivered all products and services on time and met all the requirements. Data-Core continues to provide enhancements and change requests for the applications, websites and APIs.

*Discover the Data-Core Advantage.*

*Learn how we can help your company be more relevant, effective and efficient.*



**USA Headquarters**  
1500 JFK Blvd., Suite 624  
Philadelphia, PA 19102  
Tel: 215 243 1990  
www.datacoresystems.com

**Bristol, USA**  
111 Sinclair Road,  
Bristol, PA 19007  
Toll Free: 877 300 9529  
Tel: 267 569 0800

**Las Vegas, NV**  
1771 East Flamingo Road Suite B100  
Las Vegas, NV 89119  
Toll Free: 877 300 9529  
Tel: 702 795 9559