

Implementation of Intelligent Automation Testing for a Global Technology Company

ABOUT THE CLIENT

The client is a significant technology product company providing solutions to several airports globally. Its key products involve airline and passenger systems, including border control solutions.

Business Challenge

The client's existing quality engineering practice was mainly manual and inefficient. The build cycle was more than two months. The Testing team could not deliver as per the business expectations, leading to revenue losses for the client and higher DSAT amongst the end-user because of delayed deliveries.

Business Need

The client identified the need for a professional partner to automate testing to increase efficiency and reduce time-to-market. Following were the expectations of the business:

- Improve efficiencies of testing deliveries
- Improve build delivery cycle from 2 months to 2 weeks
- Ensure test execution is reduced by 70% with the implementation of automation testing
- Ensure coverage of automation testing is more than 80% for regression suite

CUSTOMER SUCCESS STORY



Solution

The client selected IGT as its program partner to automate the manual testing process. IGT's scope included building an end-to-end strategy for automating regression test suite and developing a customized framework in collaboration with the client.

IGT leveraged its **pre-built accelerators** on test automation strategy and test tools, expertise and experience of **QE consultants** on automation, and **Intelligent Automation framework** with modular architecture to deliver the solution.

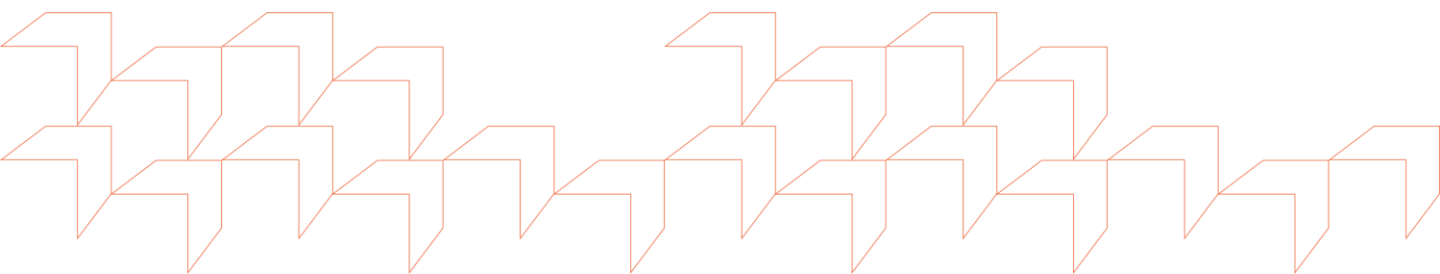
Automation Testing

- Created test automation strategy covering Unit, API, UI in various stages and different environments
- Identified toolsets and framework characteristics as well as objectives
- Created and regularly optimized regression test suite
- Automated regression suite execution by 80%
- Re-calibrated test coverage for decision coverage & workflow coverage
- Optimized execution cycle and achieved faster run per build

Automation Framework

The customized framework built helped with-

- reduction in time to create scripts.
- minimizing maintenance efforts on scripts.
- integrating several automation tools to target a specific application.
- reporting the execution progress and make health to stakeholders.
- testing data input from various sources, e.g. Excel, Json, XML etc.
- special features, such as
 - Take screenshots
 - Create customized reports
 - Cross-browser testing
 - Connect with other systems
 - Debugging for failed test scripts



Benefits

Reduced

build-delivery cycle from
2 months to 2 weeks.

70%

Reduction in
overall test efforts

25%

Reduction in maintenance
efforts due to reusable object
libraries

Tools & Technologies



IGT accelerators

