**CASE STUDY**

# Global Security Intelligence Company Improves Test Automation Productivity by 50% through AI-Driven Testing using iHarmony™ AI platform

## Client

Our client simplifies and enhances security operations by unifying access control, alarms, and event management with real-time workflow. It is dedicated to using machine learning and automation to deliver improved operational efficiencies and effectiveness across the entire physical security domain.

## Client Need

The client needed a powerful test automation solution for its platform that collects data and logs from various sources and visualizes the information using dynamic dashboards, graphs, charts, reports, and tiles.

The key challenge faced by the client in this environment is creating test scripts that can adapt to dynamic changes in the complex data-driven application. Further visual validation of graphs and charts is required to validate data on UI against the expected value stored in the SQL DB.

Some of the key objectives of the client include drilling up and drilling down on various sub aspects of the dashboards, validate Stored Procedure which is integrated with graphs and reports, and get the values from tooltip pop-ups on graphs and validate them in SQL DB.

# How We Helped

We augmented the automation of 8 dashboards with 925 Scenarios and 9397 Actions using AI-driven scripting powered by iHarmony™ AI platform. The client drastically saved on the time and improved test coverage with iHarmony's parallel execution capabilities across multiple browsers and OS versions.

We enabled continuous testing by configuring multiple pipelines in Jenkins for CI/CD and Dockerization and integrating with Bit Bucket for code check-in and source code management.

We provided the client with AI-driven API testing and reliable test executions with AI-based self-healing across all the actions, which implies the platform automatically updates scripts without manual intervention if the UI of the application changes.

We created a report template and configured it with the run flow. We provided an email notification configuration feature that sends emails of reports to key stakeholders of the business.
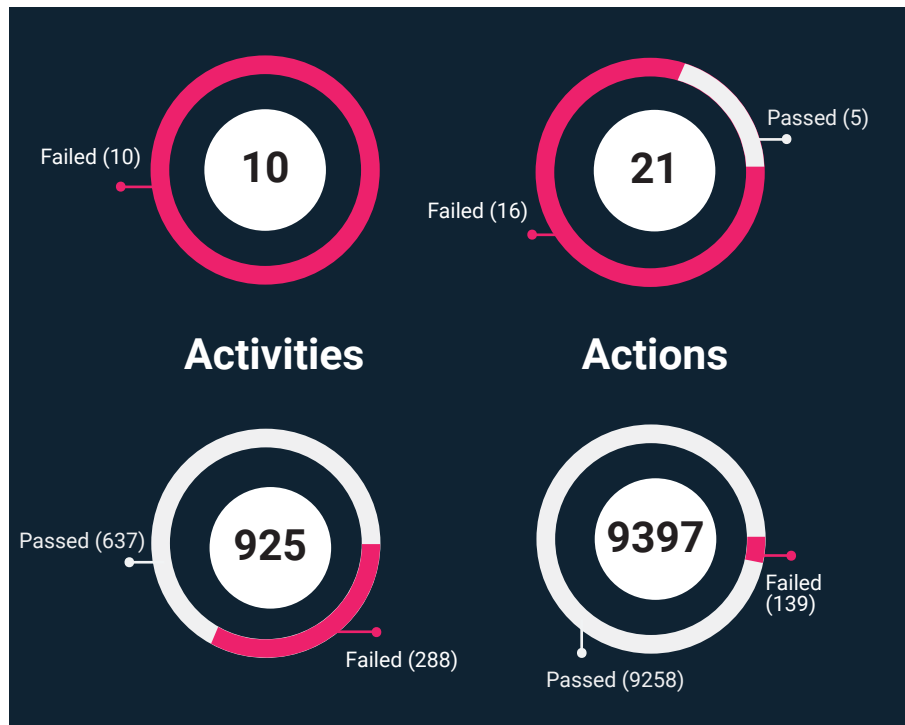
## Results

Reduction in test lifecycle time
**80%**

Increase in test automation scripting productivity
**50%**

Reduction in test maintenance effort
**80%**

Improvement in automation coverage
**85%**

Failed (10)
**10**
**Activities**

Passed (5)
Failed (16)
**21**
**Actions**

Passed (637)
**925**
Failed (288)

**9397**
Failed (139)
Passed (9258)

## About Innominds

Innominds is an AI-first, platform-led digital transformation and full cycle product engineering services company headquartered in San Jose, CA. Innominds powers the Digital Next initiatives of global enterprises, software product companies, OEMs and ODMs with integrated expertise in devices and embedded engineering, software apps and product engineering, analytics and data engineering, quality engineering, and cloud and devops, security. It works with ISVs to build next-generation products, SaaSify, transform total experience, and add cognitive analytics to applications.