

SUCCESS STORY

Web Application Test Automation

Business Problem

Our client contacted CPS TECH to help them achieve EN:50402 certification including IEC:61508 SIL1. The main task was to bring the software to meet the requirements as set out in the EN-50402:2017 standard with a minimal set of changes. At the same time, we were given the job of generating the necessary documentation to meet the requirements of IEC:61508 SIL 1.

Implemented Solution

- The framework used by client provided .xml based reporting with limited formatting and structure capabilities for readability.
- QTP/UFT Framework (original) was provided encapsulation even a user who does not understand the automation tool can execute and analyze the report. After QTP/UFT training client requested to remove that encapsulation therefor requiring scripting and reporting structural updates in framework.
- The application was not developed while keeping automation in mind; therefore, frequent internal updates were observed that affected scripts but did not affect application functionality.
- Throughout the release cycles i.e. 2-3 releases per year with 100+ new or updated requirements in each release made scripts maintenance and utilization task difficult. Application's core server interacted with hardware for data gathering which could not be automated using
- QTP/UFT. QTP/UFT was crashed or stuck randomly while executing more than 1200 scripts continuously.



Client

The customer is a global organization in designing, manufacturing, selling and servicing gas monitoring instruments, systems and related products. They are a company of over 800 team members spread across different parts of the world. They offer gas detection as a service and their products excel in monitoring hazardous gases in the most demanding work environments.

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Business Results

Optimized the framework with following features:

- Simple to execute
- Properly utilizing QTP/UFT features
- Easier to maintain
- Easier to analyze by using summary report mapped to test case and QTP/UFT detailed report combined together
- Meets client's expectations

Increased the application automate-ability with the help of development team and by having a continuous communication channel.

Revamped the GUI of one version of the application, yet the functionality and the objects were reasonably consistent. This enabled us to have 80% of the scripts ready before the regression run.

Devised a continuous and smooth script updates process while obtaining maximum utilization of scripts during functional and regression testing.

Increased the automation coverage by having hardware simulated where required.

Improved scripts execution because with launcher script we were able to have uninterrupted test runs and the executions were completed in time.



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