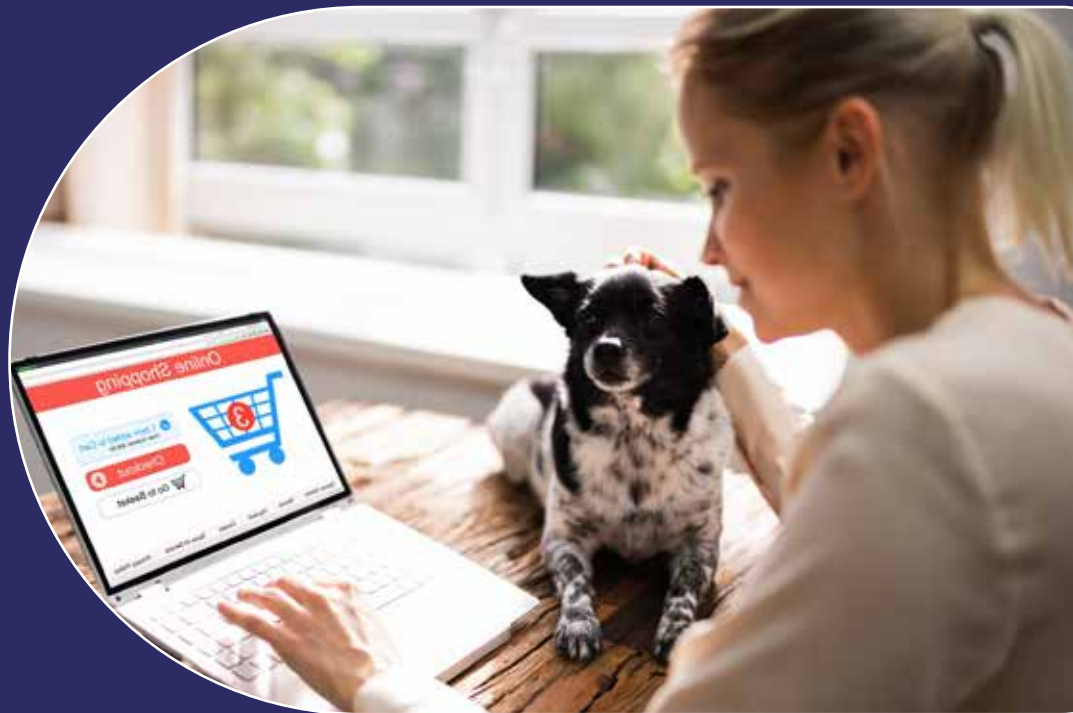


## Leading Pet Care Organization Increases Regression Testing Capabilities by 25% with E2E Phygital Automation



### Challenges

Our Client's regression testing was conducted manually.

Close to 35% of test cases included hardware interactions, and they could not automate them for this reason.



### Solutions

Regression testing was 85% automated.

Software automation (web and mobile) was automated using WebDriver Io and Qualitest's Qualibot tool was set up for our Client's hardware interactions.



### Results

Test execution duration was brought down to 3 days from 8 days.

80% hardware interactions were automated which meant that overall automation coverage improved by 27%.



## Client overview

Our Client is a leading pet care products and companion who offers a range of pet care products and services, including microchip-activated pet doors, feeders, and fountains, as well as a pet health tracking and monitoring services.

Their flagship product is a lifelong pet activity and behavior tracker. The tracker learns and interprets the unique activity and behaviour patterns of dogs and is with them 24 hours a day, giving their owners a much greater understanding of their lives.

## Providing a paw-sitive customer journey through the implementation of automation

Our Client approached Qualitest for help with their automation journey as they were looking to automate their entire regression test suite across their range of product offerings.

Some of their challenges included their test cases involving hardware interactions could not be automated by software automation tools. As a result, it was necessary to trigger hardware interactions as part of the software workflow and return control to the software after the hardware interactions were completed.

Our Client also struggled to find a vendor with specific expertise when it came to the Internet of Things (IoT) and lacked the ability to set up a dedicated lab for device testing. They needed innovators and thought leaders in the space of IoT to make suggestions to ensure their test strategies were as robust as possible, as well as reducing their test cycle duration with automation.

## Enhancing the customer journey and reducing bot requirements by 50% via integration with Qualibot

When it came to providing the right services for our Client to succeed and thrive, we ensured that functional testing is conducted across different environments including QA and pre-prod and post-production environments.

The range of services that we provided for our Client included:

- Software test automation for Web and mobile interfaces using Webdriver Io + Appium.
- Firmware testing on all devices including RFID range tests, Battery level tests.



- The implementation of Qualibot – a robotic arm based Phygital automation solution to deal with hardware interactions.
- Qualibot was integrated into the existing automation framework based on WebDriver.IO and Appium to achieve E2E phygital automation.
- All scripting was done in BDD Cucumber with assertions for software and hardware interactions in the same feature file.
- Integrated logging and reporting made for easy debugging and report sharing.
- For effective bot usage, grid execution was implemented which reduced bot requirements by 50%.

## Key benefits

- Through the use of an in-house Qualitbot framework our Client benefitted from Phygital automation which increased their regression testing capabilities by 25%.
- Phygital automation extended to 20 different products which led to a greater coverage of automation in our Client's regression testing.
- Automating 80% of our Client's hardware interactions led to a huge increase in the productivity of their regression testing capabilities.
- Overall automation coverage increased by 27% in our Client's regression testing.
- Our Client saw a 30% reduction in execution time as a result of additional automation.

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