

World's Top 3 Largest Resources Company

ABB Ellipse v9 ERP test automation project

The Results

59

Seconds:
The average time
to test each E2E
scenario

0

Script changes to
add new scenarios to
existing test
models

92%

Test script
reliability rate

Client Story

Our client is one of the 3 largest resources company globally and some of their subsidiaries use ABB's Ellipse ERP system to manage their operations, including payroll, finance, supply chain management, and maintenance.

This client identified that automated tests for Ellipse were critical in order to help them adopt and keep pace with Ellipse's new quarterly update cycles.

Being in a commercially sensitive industry, this client was conscious of the need for a secure test automation solution that came with a ready-made and customised framework to handle Ellipse v9's new HTML5-based architecture.

This client doesn't have a dedicated testing team. Because of this the burden of testing Ellipse fell to functional leads who were already swamped with work.

The Problem

In keeping with best-practice IT governance practices, our client had committed to their internal audit function that the upgraded Ellipse environment will have robust and scalable quality assurance safeguards to minimise foreseeable downtime and commercial impacts.

The IT team led by the CIO and senior information systems' managers wanted to adopt a culture of automation that would remove much of the software testing burden that their functional leads were carrying.

Given it's industry position, scale of operations and nature of activities this client has a complex applications environment with many integrated workflows spanning not only head office and operations sites, but very remote operations sites. This necessitated a test automation tool that could handle:

- Test automation of customised workflows for current and future Ellipse versions;
- Test automation of integrated workflows that traversed other external applications; and
- Data-driven tests that didn't require scripting skills to add new scenarios to the test suite.

The IT team was considering implementing a customised Selenium framework to address their Ellipse test automation issues, but soon realised that this would not be a scalable approach.

The Solution

Our test engineers utilised our [Qsome test automation tool](#) to prepare and execute a series of rigorous, automated functional tests to achieve the client's goals.

Each functional area was given access to tests that were relevant to their workflows simply by reusing test models, scripts and datasets. Multiple bots allow tests to be executed in parallel so wait times to execute tests are non-existent.

The following specific solutions are also being implemented by Audacix for the customer:

▶ **Structured Automated Functional Testing**

Designed automated tests that are mapped to actual SME workflows. Reduced number of data sets to only those affecting system behaviour. Created and maintained [continuous testing suite](#) for cross-functional user journeys to cut testing time & increase test reliability.

▶ **Optimising SME Utilisation**

Subject matter experts offer vital expertise during functional tests. However, every minute they spend testing is a minute less they have to do their actual jobs. Our end-to-end testing methodology gets you very close to 100% test coverage. This cuts SME test time and resulted in happier SMEs.

▶ **Ellipse Framework Reduces Test Development & Maintenance Time**

The Ellipse testing framework in our [Qsome test automation platform](#) removes the need to spend countless hours working out how to programmatically target the right element locator. This not only slashes test development time, but also ensures that the test suite is more reliable. After all, our client wanted to spend more time running the tests, rather than maintaining them.