

# Enterprise Application Testing

Success stories



# Enterprise Applications

Enterprise applications enable operations, serve as a system of record, and are a single source of the truth. These applications need to be rich in features and functions, robust, responsive to business need, and perhaps most importantly need to be well tested. They must always be fit for purpose. Testing needs to be managed against a backdrop of continually evolving requirements and changing software.

DWS has a long-standing reputation for delivering market-leading services and software. We have formed strong and long-lasting partnerships with our clients by building a detailed understanding of their specific requirements and consistently delivering high quality, on-time and within-budget solutions.

## Enterprise Application Testing

The testing requirements of organisations are a function of their entire enterprise application landscape, and the frequency with which the applications in that landscape are changing.

Since becoming part of the AGEST Group, DWS has gained access to a wealth of testing resources. AGEST has earned a global reputation for high quality, professional software testing and development services. QA testing is an essential component of the enterprise software lifecycle, helping to accelerate time to value for product and service innovation.

It doesn't matter what you want to test (ERP, CRM, HCM, Integrations, Custom Web apps, Custom Games etc), nor does it matter which testing tools or technologies you would like to deploy: DWS Helps businesses #TestSmart.

## Service Overview

- QA Test Planning & Strategic Consulting
- Onshore/Offshore Service Provision
- Functional Test Automation
- Web/Mobile Application Testing
- Localization Testing
- Load & Performance Testing
- ERP/API/IoT Testing
- e-Commerce Testing
- Blockchain Testing
- Cloud Native Testing



# Telecommunications – TestArchitect



## Brand/Sector:

Commscope, telecoms.  
CommScope design and manufacture network infrastructure products.

## Technology:

- TestArchitect.

## Introduction:

We implemented TestArchitect to replace their onshore manual testing programs with an automated testing program that included offshore testing resources.

## Project:

Commscope were manually testing core, back-end functionality of their networking software via a high-cost on-shore manual testing partner. Commscope were also not testing the GUI component of their solution with the result that users were finding GUI bugs with every release.

## Solution:

Commscope implemented an automated testing program that made use of:

- Our off-shore testing resources in Vietnam and Japan.
- TestArchitect – a toolset that integrates the latest methodologies and technologies in one easy-to-use package.

## Outcome:

We created an automated software testing program that:

- Implemented 4,000 automated software test cases for the GUI software.
- Expanded testing coverage from 0% to over 90%.
- Runs the entire automated test suite in only 20 machine hours
- Identifies bugs that were previously uncovered by the company's customers, thus helping to improve customer satisfaction.



Sales & marketing  
tracking



Ability to analyse  
factors





# Oil & Gas Exploration - TestArchitect / QA Training & Consulting



## Brand/Sector:

Halliburton / Landmark Graphics. Oil & Gas Exploration.

Landmark Graphics' software solutions help geoscientists and engineers make highly complex technical and business decisions.

## Technology:

- TestArchitect.
- TestArchitect for Visual Studio.
- QA training and consultancy.
- Software testing services QA.

## Introduction:

We rolled out TestArchitect, QA training & consultancy, and software testing services in order to increase test coverage and efficiency through automation of GUI testing and augmentation of in-house test resources.

## Project:

- Their development team needed an automated regression test suite to identify issues whilst using a graphical user interface.
- Developer tests were catching many regression issues, but the more complex customer regressions were still encountering many problems. Besides taking a long time to run, the problems discovered with the more complex customer data were also difficult to

debug. As things were, both the developers and the testers were barely keeping up with the defect backlog. And, when they did think they had things under control, customers would invariably find issues in beta testing or once deployed.

## Solution:

- Landmark selected DWS parent company LogiGear due to the availability of cost effective engineering talent and test automation expertise which included TestArchitect; LogiGear's keyword driven test automation platform designed for large and complex software.

# Oil & Gas Exploration - TestArchitect / QA Training & Consulting

- The first project kicked off with a team of three testers in Vietnam and a part-time project manager based in California. They aimed to increase coverage through automation and free up Landmark's reservoir engineers so that they could perform more exploratory testing.
- Using the Action Based Testing approach, LogiGear created test cases as a series of keywords (actions) with arguments. The automation focused not on automating test cases, but automating the actions.
- Since there are many fewer actions than test cases, and action implementations tend to be shorter than test case implementations, the automation effort is much more manageable. This manageability is especially evident when the application under test changes. Using TestArchitect, only a few of the actions had to be modified when the application changed. To ensure productivity through reusability and maintainability of tests, the test engineers were well trained in test case design by LogiGear.

## Outcome:

- 84% decrease in defects found in beta and a 97% reduction in the known issues found at product shipment.
- Feed up domain experts time to focus more exploratory testing which is critical for complex software.
- Testing results helped increase confidence in quality of product.
- Improved customer satisfaction due to advanced de-bugging.



Process  
Documentation



Successful  
development of  
mobile app



# Information Technology: Global Test Automation



## Brand/Sector:

Hewlett Packard, Technology Solutions.  
Hewlett-Packard is the world's leading provider of technology solutions to meet business and consumer needs.

## Technology:

- TestArchitect.

## Introduction:

We helped design and deliver a global testing solution for integrated test design, automation and management.

## Project:

Hewlett-Packard was updating a worldwide portal site deemed 'mission critical' by senior management. Time-to-market was essential, and testing was identified as the critical path item preventing an earlier release.

Previous efforts at test automation had not been successful. Only a small percentage of tests were being automated at a very high expense.

HP sought a test automation solution that would automate the critical user acceptance tests and provide a stable, reusable long-term test automation framework that could be expanded to support other teams and projects.

They hoped to reduce the overall testing time to improve their time-to-market.



# Information Technology: Global Test Automation

## Solution:

- DWS parent company LogiGear designed a comprehensive global testing solution, including the TestArchitect™ toolset for integrated test design, automation and management, and testing teams based in the United States, Vietnam, and HP's India facility.
- HP's critical business requirements were translated into test requirements and test cases designed using the Action Based Testing™ method.
- A library of reusable action keywords was built, providing complete automation coverage of the application, and allowing 100% automation of the application, as well as future expansion with little or no maintenance.
- The automation framework developed by LogiGear was so powerful and easy to use that it was adopted by HP's internal test team midproject, leading to full automation of all systems combined with, functional and integration testing for a turnkey test solution that far exceeded expectations.

## Outcome:

- 70% reduction in time spent on test execution, future-proof process with 100% test automation.
- Critical user acceptance tests could now be run in a matter of hours, rather than days.
- The testing cycle was drastically reduced, removing QA from the critical path.



Successful  
development of  
mobile app

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