

Construction Leader Streamlines Testing for DevOps with a New Approach to Test Automation



A multinational construction, property, and infrastructure company headquartered in Australia needed to strengthen their lead in a tightening national housing market, so they prioritized initiatives that balanced strategic innovation with efficiency. Software testing faced increased pressure to ensure better quality... in less time, and with their existing resources. On top of that, they were also expected to align testing cadences with the company's maturing DevOps initiative.

Their quality leaders knew that test automation—and ultimately Continuous Testing within the CI/CD pipeline—would be essential for achieving these goals. For guidance on how to expand the isolated pockets of automation within their testing process, they turned to the experts at Capgemini, a global leader in consulting, technology services and digital transformation.

Per the client's request, Capgemini initially focused on maximizing success with the client's existing legacy testing technologies (HP [now Micro Focus] UFT). However, the script-based approach was limiting. Building and maintaining the overarching test automation framework, plus all the required test scripts, required considerable time from the client's highly-technical resources. In fact, so much time was being consumed by the intricacies of scripting and development that the client worried it was impacting the quality of their testing. When it became clear that scaling test automation was not feasible—especially at the speed and scope required to support their expanding DevOps initiative—Capgemini led the client to Tricentis Tosca.

Results

REDUCTION IN DEFECT LEAKAGE

FASTER CREATION OF TEST AUTOMATION

FASTER TEST EXECUTION VS HP UFT



Tricentis Tosca is recognized as the leader in Continuous Testing and known for enabling 90%+ test automation rates in enterprise environments. Capgemini selected it for this engagement due to its proven track record of enabling business users to control their own test automation. Another key factor was the ease of maintenance. The brittle nature of UFT test scripts caused a burdensome amount of test maintenance, preventing palpable gains in test automation rates.

With Tricentis Tosca's resilient test automation, acceptable application variations no longer trigger "false positive" test failures that require review and maintenance. Moreover, when tests do require updating (e.g., when a new field is added or the UI is redesigned), the update can be specified once, then automatically propagated to all impacted tests.

Together, Capgemini and Tricentis established:

- A business-focused approach to test automation that's fast and low-maintenance
- A structured methodology for designing a powerful test suite with the fewest possible test cases
- A "shift left" testing approach led by API testing
- Significantly more validation points for more accurate and extensive testing
- Daily "Health Checks" that ensure environment readiness

At a glance



Technologies

- Salesforce
- Oracle EBS/Forms
- Oracle SOA Suite
- IBM Cognos TM1



Tricentis Tosca capabilities

- UI test automation
- API test automation
- Test data management
- Risk-based testing and test case design
- Distributed test execution



Enablement

- Online training
- Setup (DEX, TDM, Analytics)
- Best practices workshops
- Sample assets for test case design and risk-based testing
- Training plans for coaches, engineers, and architects

About Tricentis

With the industry's #1 Continuous Testing platform, Tricentis is recognized for reinventing software testing for DevOps. Through risk-based testing, scriptless end-to-end test automation, and the industry's most extensive technology support, Tricentis breaks through the barriers experienced with conventional software testing methods. Our innovative technologies simplify testing for even the most complex enterprise applications—transforming testing from a roadblock to a catalyst for innovation.