



Functional and Regression Automated Testing Solution with TOSCA: Low-code / No-code Automation Testing



One of the largest manufacturing companies in the world

One of the largest manufacturing companies in the world was facing effort intensive delays in the QA signoff for different end markets along with manual testing. They wanted a functional and regression automated testing solution for which ITC Infotech was involved.

60% reusability **85% Coverage in Regression Suite automation**

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.



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CHALLENGE

- Manual Testing and effort intensive delaying QA signoff – different end markets
- Frequent deployment and release plan (Weekly) arising out of New Features, Enhancements, or CR
- Requires a robust and comprehensive end-to-end testing and test data preparation
- Localization Testing, Cross Browser Testing (Chrome, Safari, Firefox), Reusability and Maintainability
- Automate regression suite of 1500 Test cases with a scrip- less test automation solution
- Framework designing should be less time-consuming and easy to understand
- Compatible with Citrix applications
- 24X7 Technical support should be available

SOLUTION

- Test Automation solution implemented using TOSCA and qTest
- Test Data creation is automated using TOSCA TDM solution of Test Case Design, Test Configuration parameter, Buffers, Test Data Services, and Excel
- Test automation solution integrated to test management tool qTest and supports Cross Browser and parallel testing
- Removed duplicate Module by Module merging feature which helped to save internal memory
- Metrics-driven approach for Quality Checks with Weekly demos to stakeholders
- Automated regression suit for E2E scenarios + third-party interface tool
- Fully agile Sprint-based development model with accelerated Test Design

RESULTS

- Regression Suite automation with 85% Coverage
- 60% reusability across 8 end markets with a Modular Framework approach resulting in 80 % effort savings
- 2x increase in throughput due to end-to-end automation- Web- API- DB which helped in a 40% reduction in cycle time