ENGINEERING AND R&D SERVICES

HCL

TEST AUTOMATION FRAMEWORK

HCL's Test Automation Framework (TAF) is a test automation services delivery platform aimed at accelerating & optimizing the test automation lifecycle. TAF provides a Comprehensive Test Ecosystem Enabler for mobile, desktop, web, embedded and mainframe applications resulting in effort savings of upto 70% in test design effort & bringing down time to market by 20-30%.

BUSINESS CHALLENGES

- Transformation into Agile and DevOps models
- Inadequate ROI on Automation investments
- Validating frequent updates of application features
- Lack of skilled and experienced automation resources
- Automation scripts management

KEY FEATURES OF HCL'S TEST AUTOMATION FRAMEWORK?

TEST DESIGN ACCELERATION & PRODUCTIVITY IMPROVEMENT

- Keyword-driven automatic test script development for Selenium, Appium, Testcomplete, Coded UI, SeeTest, etc.
- Support for Behavior-Driven (BDD) testing tools like Cucumber and JBehave

TEST EXECUTION ACCELERATION

- Integration with test automation engines for testing across web, mobile, desktop, embedded and mainframe applications
- Remote/parallel/sequential execution across test environments
- Test result aggregation from multiple test execution environments and auto-report generation in multiple formats

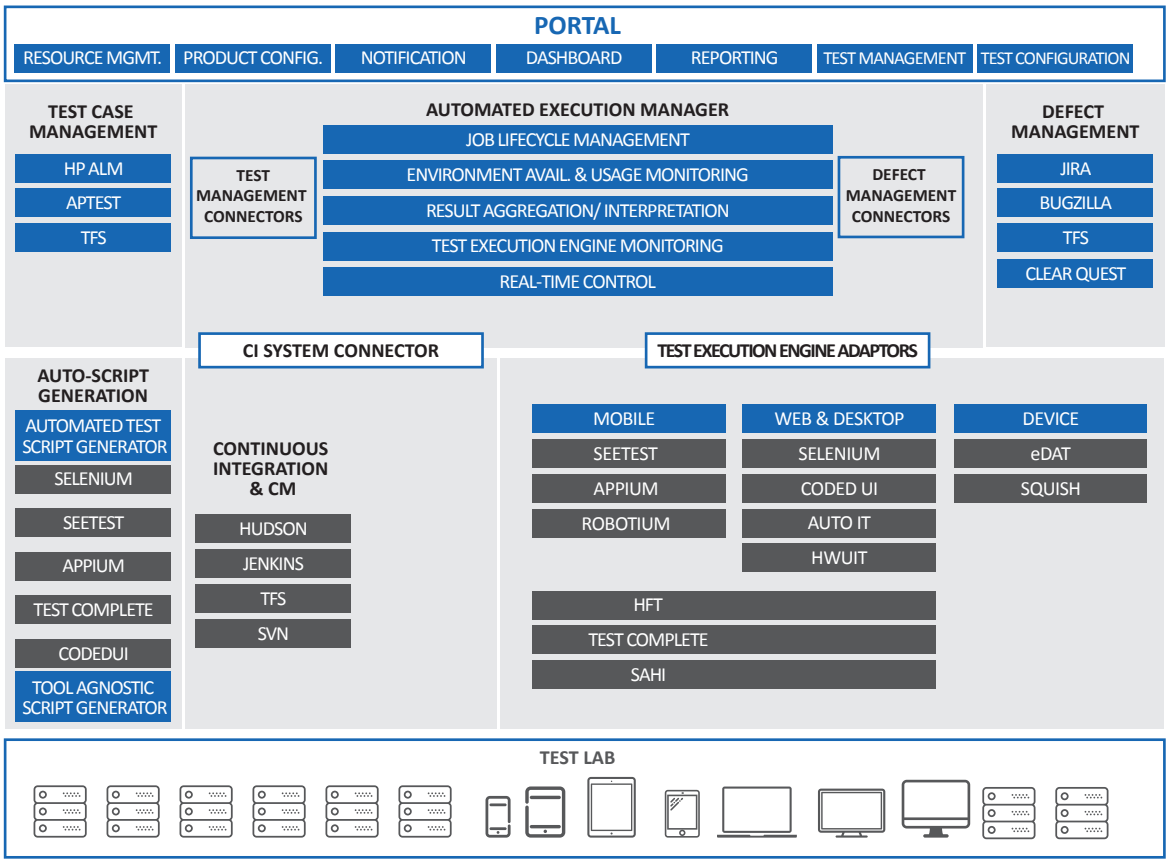
WHY HCL'S TEST AUTOMATION FRAMEWORK?

- Support for shift-left testing and DevOps frameworks
- Exhaustive keywords and BDD support in TAF enables high automation ROI and ensures maintainability of test automation scripts
- With pre-built connectors, TAF integrates seamlessly into customer's existing testing ecosystem minimizing changes in existing processes
- Analytics-based Intelligent Test Planning to facilitate faster test cycles with optimized coverage
- Integration with IBM Rational suite of products
- Support for non-functional testing

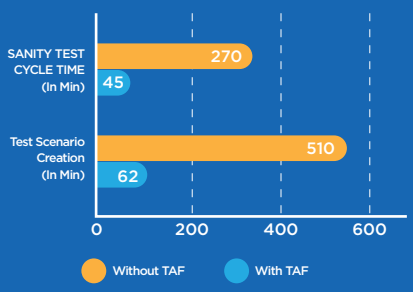
SAVES 10 – 30 % ACROSS TEST AUTOMATION LIFE CYCLE

- Reduce script generation effort & improving test script quality
- Reduce test automation execution cycle time through remote/parallel test execution
- Connectors for major test /defect management systems
- Faster test result interpretation & auto-report generation
- Intelligent Test Execution for faster test cycles while ensuring test coverage

FUNCTIONAL ARCHITECTURE



1. Power & Automation Major



2. Semiconductor

- Test execution time reduced by ~65% for one cycle due to CI integrated Automation framework and executing test scripts in parallel across locations.
- Eliminated multiple manual touch points of copying the scripts to test environment, invoking appropriate test engines, aggregating results from various environments, creating aggregated reports and posting defects and results.

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