

HCL'S TAF HELPS IN **REDUCING TIME TO MARKET** AND SAVING SIGNIFICANT MANUAL TEST EFFORTS WITH CONTINUOUS INTEGRATION

The Client

A world-leading provider of equipment and services to the semiconductor manufacturing industry, headquartered in Massachusetts, United States. It engages in the design, manufacture, and servicing of capital equipment for the semiconductor manufacturing industry worldwide.

Business Challenges

Engineering Head wanted to replace vendor products and develop a common platform for its products. With teams and infrastructure being geographically distributed, they were looking for an automation framework that will seamlessly automate end-to-end automation of its products in a continuously integrated manner. The current testing process was time consuming and manual which was impacting on the quality as well as schedule.

The testing team was primarily manual testers and were hard pressed on time due to the large volume of test cases (66+ test plans) to be tested manually across releases. The entire process included transfer of build across locations, setting up the environment with PowerShell scripts and performing the smoke test of the build followed by filing of defects into JIRA.

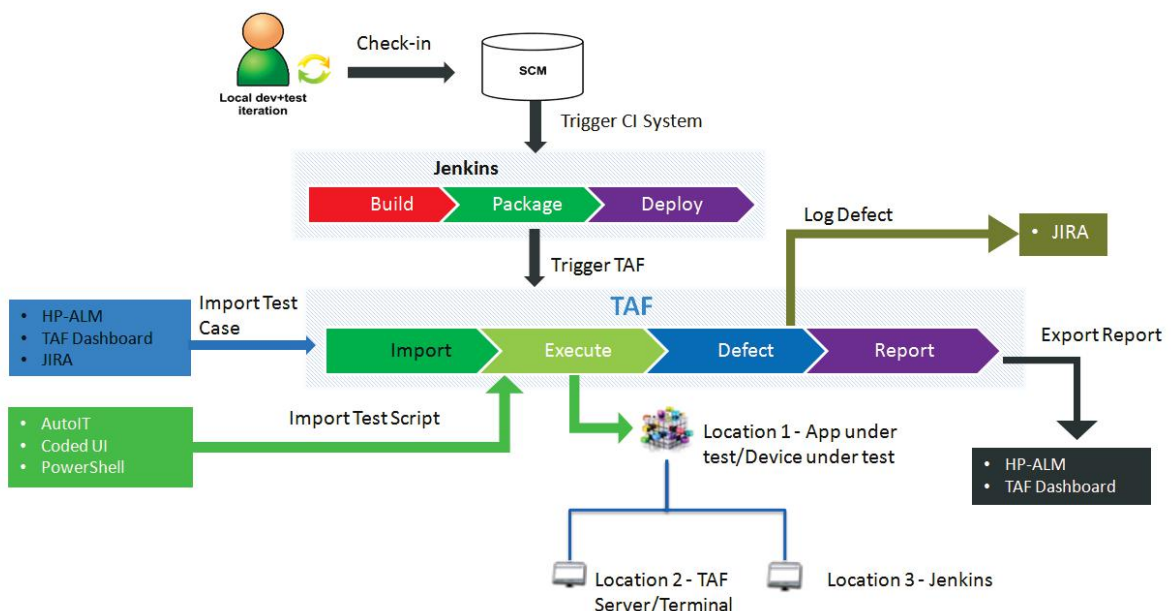
HCL'S KEY CONSIDERATIONS & SOLUTION

Some of the key considerations

- Ensuring the framework is integrated with CI system and can in parallel execute the testing across multiple locations
- Automate the generation of reports and reduce the manual touch points through the automation cycle.

Solution:

- HCL's Test Automation Framework (TAF) over Microsoft .NET Framework 4.6.1, 4.0 and was required to support Windows 7 or later for 32/64 bit systems.
- TestAutomation Framework Integrated with PowerShell and Coded UI scripting to automate its new product platform
- TAF's orchestration ensured faster test cycle times as test script deployment , test execution through test engine, result collection and reporting were automated



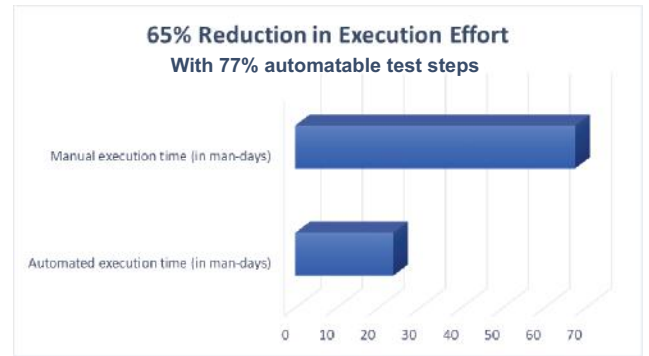
IMPACT

VP Engineering:

- Test execution time reduced by ~65% for one cycle due to CI integrated Automation framework and executing test scripts in parallel across locations.

Testing Team:

- 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.
- Manual execution effort saved by 65% across the 66 test plans per cycle



Impacted Areas	Impact
Test Suite Execution Acceleration	65% savings on execution time per cycle
Detailed Report & Live Dashboard	Transparency of testing across all levels



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