HCL

HCL's TEST AUTOMATION FRAMEWORK (TAF) IMPROVES AUTOMATION COVERAGE & SAVES SIGNIFICANT MANUAL TEST EFFORT

THE CLIENT

A fortune 500 American multinational healthcare leader catering to multiple industry verticals – Pharma , Medical devices and consumer goods. It is a highly diversified company with more than 240+ subsidiaries spread across world and products sold across 170+ countries.

NEED & CHALLENGES FACED

One of the customer's medical devices division was planning to globally launch a medical device and along with it a Companion App in mobile device with significant functionality moved to the App. Data transfer between device and mobile app is through a BLE interface. With Mobile device as cloud gateway data is synced with cloud where users data is continuously analyzed and alerts / alarms are raised through the mobile device.

- Plan was to launch the medical device and a localized version of companion app across multiple countries. Hence multiple rounds of testing across multiple devices (iOS & Android) was required to meet tight release schedules

- Since it is a medical companion App stringent safety critical requirements meant through testing and hence need for higher test coverage

- Usage of a qualified tooling infrastructure integrated with customer's test ecosystem was expected

- Customer has limited set of Mobile devices in-house and hence a need to expand test infrastructure to achieve adequate coverage
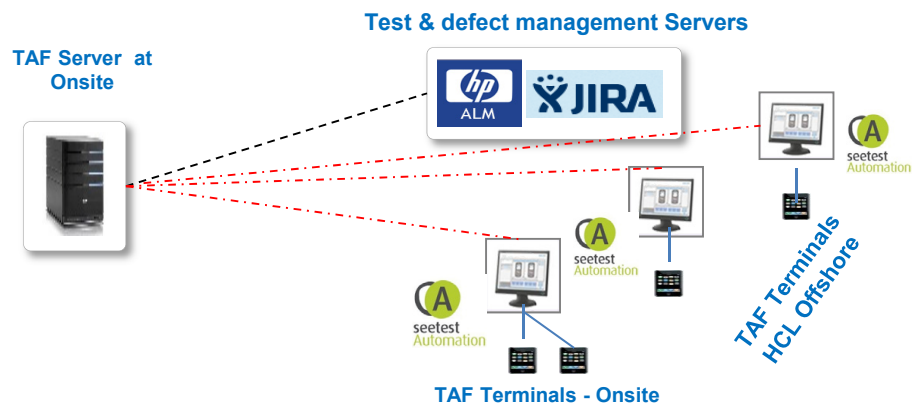
HCL's SOLUTION CONSIDERATIONS & SOLUTION

- **High script reusability :** Single script to run across iOS and Android mobile devices irrespective or platform and devices versions and same script for multiple locales for string / text verification

- **Remote testing :** Automation team and devices spread across multiple Geos required remote testing capability for better test infrastructure utilization

- **Tool Qualification :** Qualification of Automation testing solution along with tool ecosystem required.
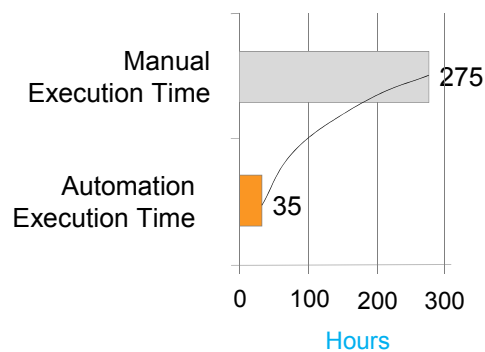
Solution :

- Overall solution with a device Lab supported by HCL's Test automation framework integrated with Customer test ecosystem.

- Integration with customer's HP ALM for Test case management and JIRA for defect management

- Localization support through the framework and integration with Seetest as test Execution Engine ensured a robust solution for testing

- Unattended testing ensured improvement in test execution cycle times

- Bringing all Mobile devices into a single platform ensured adequate device coverage and device utilization improved.

Distributed solution architecture across onsite offshore

IMPACT OF TAF

Effort Savings :

Per Device	: 35 Person Hours
Per Cycle	: 240 Person Hours
Per Release	: 5760 Person Hours

CUSTOMER BENEFITS

- An integrated solution provided by HCL's Test Automation Framework provided a head start to customer's test automation adoption providing time to market advantage to customer

- Reduction in overall testing costs by 34% and reduction in test cycle time by 87%

- Increased platform coverage by 80% by including more test environments and devices

- Achieved automation coverage of 64%

- Saved approx. 600K USD per year due to automation and Test effort savings of 5760 Person hours per year

- High test script reusability for testing across multiple locales. Minimal script changes required for functional testing.

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Relationship ™
BEYOND THE CONTRACT

HCL