



SUCCESS STORY HIGH TECH

US MULTINATIONAL ACCELERATES TESTING CYCLES BY 60%

Apexon test automation solution reduces costs and ensures seamless customer experiences



With emerging technologies rapidly gaining ground in the communications sector, the communications software applications market is expected to reach \$11.4 billion by 2024.

The customer, an American multinational tech giant with a communication software userbase of 115 million, wanted to validate physical device compatibility for the collaboration platform whilst retaining a seamless end-user experience.



THE RESULTS

KEY OUTCOMES

By deploying an automated solution to meet the customer's needs, Apexon was able to deliver significant business benefits, including:



60% FASTER TEST EXECUTION CYCLES



30 - 35% COST SAVINGS DUE TO THE USE OF OPEN-SOURCE AUTOMATION FRAMEWORK



85% OF REGRESSION TEST CASES AUTOMATED



QUICK & EASY DEBUGGING

THE CHALLENGE

3 KEY AREAS

An in-depth analysis of the customer's existing processes revealed various challenges like:



Physical Device Compatibility

Validating physical device compatibility across 15 device models for every major and minor software version changes



Increased Validation Requests

Rapidly expanding set of device models and variants across which the validation had to be executed



Limited Turnaround Time

Limited turnaround time for testing due to aggressive time-to-market

THE SOLUTION

4 KEY AREAS

To tackle the challenges at hand, Apexon developed an automated solution using an open-source Robot Framework which included:



Multiple Testing

Device configuration testing using Python so that multiple models and variants could be tested using the same scripts



User-friendly Logging

User-friendly logging to ensure easy maintenance and debugging



Parallel Execution

Parallel execution so that multiple device sets could be tested simultaneously



Integrated Automation

Integrating the automation solution to Azure pipeline for unattended overnight execution



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