

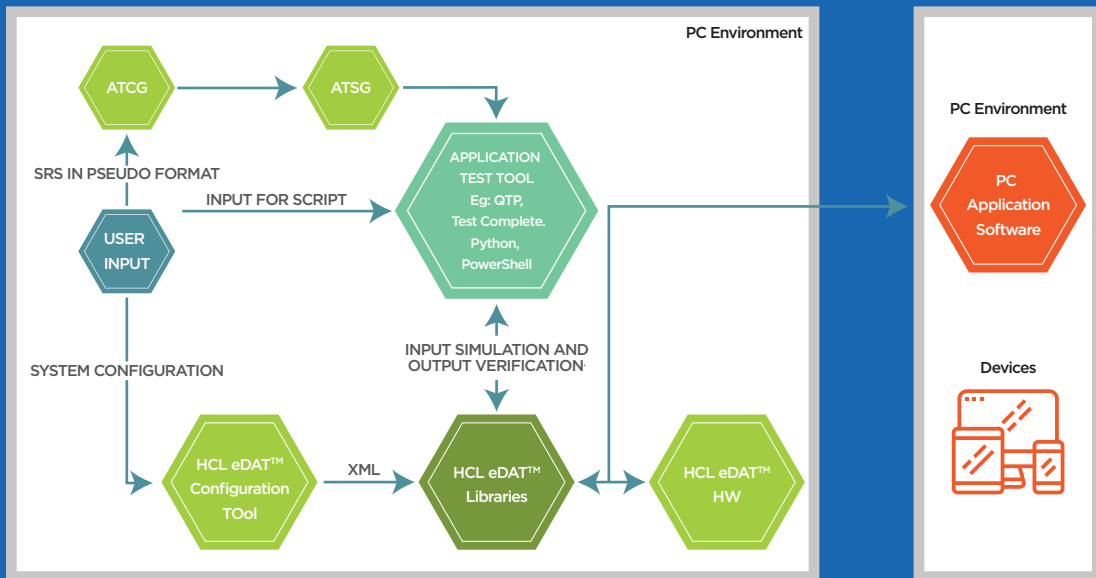
HCL ELECTRONIC DEVICE AUTOMATION TESTING (HCL eDAT™)

HCL eDAT™ is a Modular, Scalable, Extendable and Highly Customizable framework for automated testing of electronic devices. It enables test automation using black box approach through hardware and software interface accelerators.

BUSINESS CHALLENGES ADDRESSED

- In the present digital world, wide array of devices; enormous testing requirements
- Long time to market and high costs due to manual testing processes
- Product revision related challenges; modifications induce side effects and hence instability
- Commercial test automation platforms that provide insufficient ROI
- Test departments are overburdened with the amount of testing required.

HCL eDAT™ Architecture & Key Features

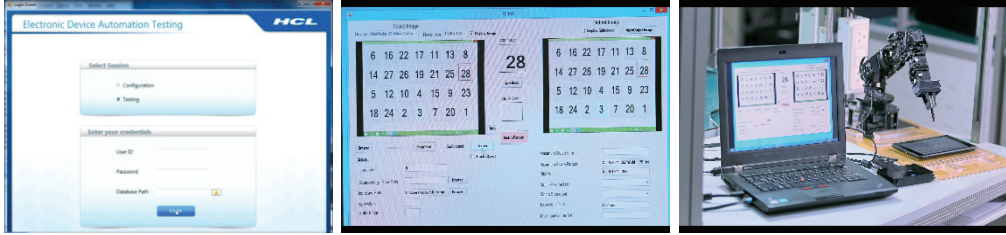


● HCL Owned
 ● COTS
 ● COTS + HCL Owned
 ● DUT
 * Script Execution in Test Application Tool Decides when to communicate with DUT/ eDAT and also similar for responses

KEY FEATURES

- ATCG, ATSG
- Vision based Testing
- OCR - Optical Character Recognition
- Robotic Arm based Non-intrusive Testing
- Touch Screen Testing
- GUI Testing
- Input Simulation Testing
- Audio & Video Testing
- Imaging Algorithms
- Interfaces supported - BT, USB, Wi-Fi, Ethernet, CAN
- Multi platform Testing
- Remote Testing

WHY HCL eDAT™ SOLUTION?



SAMPLE HCL eDAT™ SETUP SCREENSHOTS

- HCL eDAT™ delivers high coverage (~ 50-60%) while enabling faster time to market.
- Reduces testing costs, time-to-market, and defect leakage.
- Customized to fit to your specific environment and test requirements.
- Ensures optimal return on investment as one HCL eDAT™ setup supports multiple devices-under-test (DUTs).
- Offers objective testing evidence in Reports and Pinpoints defects, thereby allowing faster troubleshooting.

PROOF POINTS



- Automated testing of photocopier application for a leading Japanese Technology Company.
- Built Modular test Setup to simulate input and capture images from the device application.
- Reduced testing costs by 36% and testing cycle times by 80%.



- Testing of Online Video app for leading ISV.
- Leveraged Image Comparison to capture text from display images for testing.
- Reduced testing costs by 47% and testing cycle times by 80%.



- Automated testing of shower control unit for leading French Aerospace Company.
- Simulated shower control inputs for testing.
- Reduced testing costs by 47% and testing cycle times by 68%.



- Point Of Care Device Automated Localization Testing for a Leading Health Care Company.
- Single setup to test multiple language GUI with 85% UI string coverage.
- Reduced testing costs 45% and testing cycle times by 47%.



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