



## Cyient's Framework for Automated System Testing



High-quality, reliable testing of software requires longer test cycles, skilled test engineers, time, effort, and money. If a test approach is incorrectly chosen, a small change in software or in software configuration may have a ripple effect on test efforts which may cost an organization dearly. The most sustainable way to efficiently deal with these challenges is to embrace an efficient, reliable, easy-to-use test automation solution that predicts, auto generates, and simulates business use cases with minimal or zero human intervention.

Cyient's CyFAST solution provides a very simple intuitive test configuration and orchestration workflow using a very secure, enterprise grade highly scalable cloud environment. CyFAST is a single automated test solution for applications developed on various platforms, including the Web, Windows desktop, mobile, IoT, Embedded Device application with and without UIs, Networked embedded devices, APIs, and simulators.

### Key Features



End-to-end system and functional testing



Risk-based impact analysis for test planning, prioritization and execution



Cloud based remote Execution of tests with ease



Multiplatform, multisite and parallel execution



Integration with ALM tools



Report customization to support QMS and industry specific compliances



Test, Requirement and Risk Traceability management



Cognitive intelligence performs regression analysis

## CyFAST Framework

### CyFAST Web App Frontend

react JS-based web app that renders CyFAST intuitive webpages for managing users, projects, test orchestration, and monitoring status.

### CyFAST Backend API Application

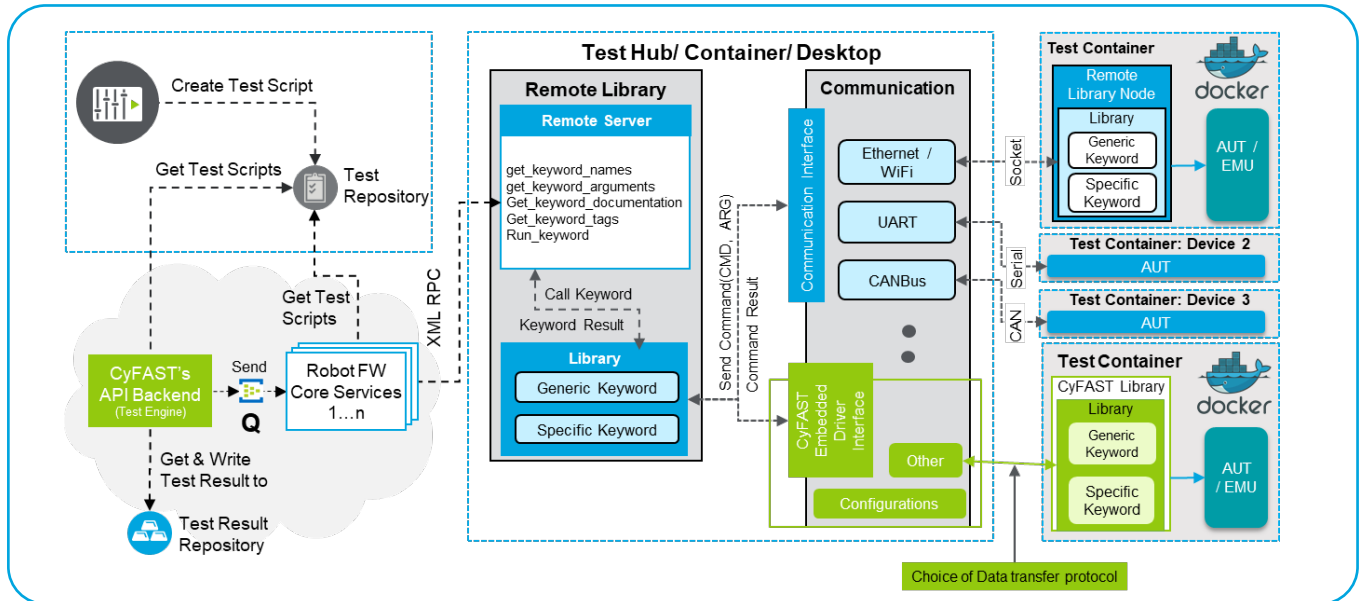
C#, .NET based microservice application that performs user, project, orchestration and test result/report management.

### Backend Test Execution Engine:

An execution engine based on Robot Framework that fetches, parses, executes, and gathers test results, logs, and evidence.

### CI/CD Plugin:

An extension or plugin integrated with CI/CD or ALM tool enables DevOps engineers and developers to carry out, control, and manage test orchestration tasks



## Benefits of Future-Ready Test Automation Platform

### Qualitative Benefits

- Reduced license cost
- Increased in test coverage
- Lower operational costs
- Improved testing productivity
- Faster time-to-market
- Plug & play model with minimal customization
- Ability to use existing test assets

### Quantitative Benefits

- Up to 90% target automation
- Up to 50% reduction in time-to-market
- Up to 30% reduction in total cost of ownership

## The Cyient Edge

Two decades of experience in delivering end to end embedded system solutions leveraging domain expertise across industry verticals and well established eco system

Cyient (Estd: 1991, NSE: CYIENT) is a global engineering and technology solutions company. As a design, build, operate & maintain partner for leading organizations worldwide, we take solution ownership across the value chain and leverage the power of digital technologies and advanced analytics, along with domain knowledge and technical expertise, to solve complex business problems. With more than 15,000 employees in 20 countries, our industry focus includes aerospace and defense, medical, telecommunications, rail transportation, semiconductor, industrial, and energy.

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