

## Developing and Testing Next Gen Synchronization Management System



### THE CLIENT

The client is a global semiconductor and system solutions provider for communications, defence & security, aerospace and industrial markets.



### BUSINESS NEED

The customer wanted ALTEN Calsoft Labs to do the following:

- Develop a Next Gen Synchronization Management System leveraging agile methodology
- Testing the built product using automation tools
- Test on diverse hardware (SSL + memory) combinations



### TECHNOLOGY USED

- IDE: Microsoft Visual Studio
- Tools: Ranorex 6.0 with valid license, SyncServer s650 with latest image
- Framework: .NET



### SOLUTION DELIVERED

ALTEN Calsoft Labs' testing professionals did the following to ensure customer satisfaction.

- Automation script development using Ranorex web automation tool (Development) integrated with Microsoft .NET
- Carried out Functional Testing and UI Testing
- Script execution on the Sync server WebUI (validation) using Ranorex framework
- Integration with JIRA for issues tracking
- Data Driven Testing (DDT) using Excel - all inputs to the scripts were stored in single Excel file
- Robust exception handling mechanism implemented in the framework that helped to handle any unexpected or exceptional situations that occur during script execution
- Inbuilt customizable report generator component - Excel and PDF based
- Customizable rules engine to deliver reports through email
- Application auditing and execution log - test script execution activities were logged into time stamped log files for debugging



### BUSINESS BENEFITS

- Minimize manual regression efforts and increased ROI
- Robust automation script execution with complete exception handling covering all test scenarios
- Significant reduction in test execution time with quick creation of new test cases using C# as the standard language

### ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi-tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALLEN group, a leader in technology consulting and engineering services.

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