



How KITE Helped a Tier 1 to Perform Black Box Testing Including HMI Validation with 87% Test Automation Coverage



Automated Functional Testing of Cluster

Client Challenges

- No supplier could provide solution for automated black box testing of HMI screen & use cases with consistent test results
- Reduce cycle time of full system test, as OEM demanded for full test execution cycle before every software release



Solution Highlights

1

Designed & Created Mechanical Fixture which Allows to Setup within 5 minutes for Cluster of Varying Screen Sizes

2

Implemented Single Camera Based Solution for Black Box Testing

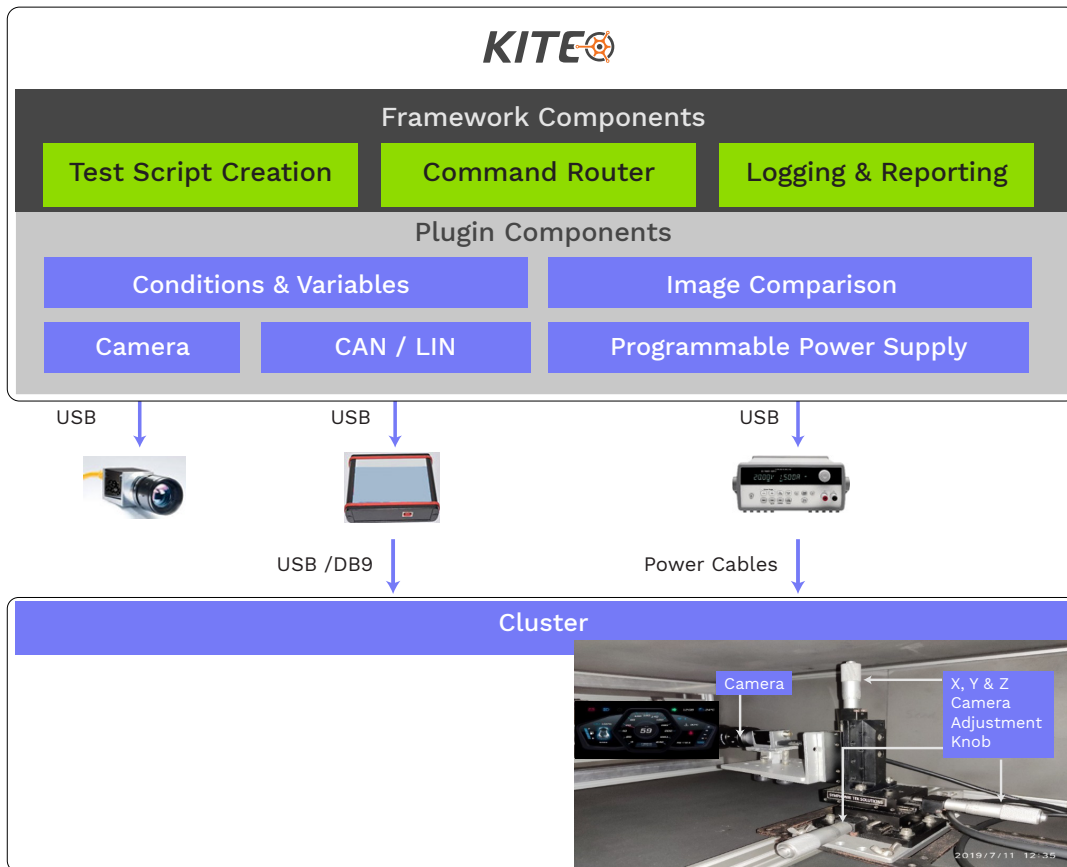
3

Automated Testing of Warning / Information Popup, List Menu Analog Gauges, Digital Display & Tell-tale, Power Mode (low/high or on/off)

4

Automated Testing of CAN, LIN, Flow Control ISO 15765 Messages

Solution Setup



Story in Numbers

1

9 Team Size at Offshore

2

2 Programs
17 Variants

3

10123 Total Test Cases Automated

4

Full Test Cycle in 1 Week

5

87% Automation

6

70% Manual Effort Reduction