

Case Study

Verification and validation of Input Output Module (IOM) card for an aerospace and defense company

How a Fortune 100 company benefited by using its verification and validation of an environment surveillance system in one of the Airbus aircrafts



Business Challenge

The customer is ranked number 3 in the aerospace and defense industry and specializes in solutions related to Specialty Material, Aerospace Transportation systems and Automation & Control systems. The customer needed to test surveillance system based on Integrated Modular Avionics (IMA) architecture as per stringent RTCA/DO-178B level B objectives in a short time period.

Mahindra Satyam's Role

Involved Verification & Validation of Input Output Module (IOM) card for airborne surveillance system. Mahindra Satyam also provided support for Unit, Integration and system testing support as per DO-178B level-B specification. Mahindra Satyam carried out functionality testing by developing and executing test script on PC where the PC communicates to IOM through commercial interface card. The functional test scripts were developed using client proprietary functional test scripting tool.

Business Benefits

- DO-178B level B verification and validation
- Reduced time-to-market by meeting steep timelines
- Client Proprietary Avionics Real Time Operating System
- Client Proprietary Functional Test Automation Tool
- Generated all test reports and LDRA scripts

For further information please write to rfi@mahindrasatyam.net.