

## Case Study

*How a fully functional mobile test equipment was developed and executed to test two aircraft subsystems before installation*



## Mobile test station for ATP and ESS testing of aircraft subsystems

### Business Challenge

The customer is a leading producer of fuel measurement, fuel management, health and usage management (HUMS), proximity sensing, fire protection and actuation systems that needed to develop a mobile test station for ATP and ESS testing of aircraft subsystems. The challenge was to make the test equipment used to test Fuel Quantity Processing Unit (FQPU) and Remote Data Concentrator (RDC) meet the requirements for manufacturing acceptance testing and environmental screening for FQPU and RDC.

### Mahindra Satyam's Role

Mahindra Satyam undertook complete product development lifecycle responsibility involving design, development, testing and deployment of the test rig. Mahindra Satyam developed and shipped two test equipments for ATP and ESS testing of FQPU and RDC.

### Business Benefits

- Low cost of development and deployment
- LabView, ARINC 429 protocol, AutoCAD, ORCAD
- Complete Product Development Life Cycle
- Rigorous Design & Development Model
- 3-Tier Software Architecture
- Windows XP, LabView 7.1

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