



GLOBAL **AVIATION COMPANY**
IMPROVES **SOFTWARE TESTING**,
ACHIEVES CYCLE TIME REDUCTION

CASE STUDY

THE CLIENT

The client is the world's largest aerospace company, and a leading manufacturer of commercial jetliners and defense, space and security systems. It is also one of the USA's top exporters catering to the world's airlines as well as US and government customers in 150 countries.

The client's products and tailored services include commercial and military aircraft, satellites, weapons, electronic and defense systems, launch systems, advanced information and communication systems, and performance-based logistics and training.

CHALLENGES FACED BY CUSTOMER

The client's key challenge was to increase the quality of software by ensuring comprehensive test coverage. Other challenges-

- Aimed to reduce the intense efforts to test as well as streamline the system
- Needed adequate regression on VPC
- Needed to reduce duplication of efforts between multiple modules
- Needed support for monthly code change, frequent UI and Java migration
- Needed to create test cases without cumbersome documentation

HCL'S SOLUTION

HCL conducted a gap analysis and identified the integration between functional areas by building a data flow diagram.

Other solutions included:

- Automated highly-critical end to end test scripts
- Reduced redundant testing and minimized manual test data creation by introducing sequence-driven testing
- Implemented test management and defect management processes
- Implemented Quality center for test management
- Created a smoke testing script to reduce migration cycle time
- Trained the client's team on test tools and their usage
- Created a lightweight regression suite to support DEM testing

BENEFITS

As a result of HCL's comprehensive solution, the client obtained the following benefits:

- Increased overall automation coverage
- Reduced execution cycle time by up to 30 percent
- Enabled on-time regression testing and thus meeting tight project deadlines
- Provision of solutions for functional areas and reporting vendor
- Standardised test processes
- Created a common test repository
- Improved tests coverage and quality through knowledge transfer and review of test facts from HCL's ERP LN team



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