

100% Test Coverage for Data Migration & Validation with Nil Disruptions & Data Loss

Insight

A private aviation leader wanted support for its QA and testing processes for data migration with minimal disruption/downtime, data integrity, and no loss of data, while ensuring that all the specified functional and non-functional aspects of the application are met post-migration.

Forsys offered E2E testing services to the client, which included creating the test process from scratch for data migration testing, performing a risk assessment of the current environment, and designing a targeted test approach. As a result, the client achieved 100% test coverage for data migration and validation.



Industry

Aviation & Aerospace



Revenue

\$2+ B



Employees

7K+



Headquarters

Ohio, US







Business Challenge

The client had a requirement for data migration testing and post migration data ownership, which included the verification process of the migration of the legacy system to the new system with minimal disruption/downtime, with data integrity, and no loss of data, while ensuring that all the specified functional and non-functional aspects of the application are met post-migration.

They were looking for the expertise to build the strategy to complete data migration testing, and manage and own every data element after migration to maintain data governance, quality, correctness, and completeness.

Apart from that, the client faced a series of challenges:

-  Accurate data validation.
-  Unstreamlined QA processes & resources to support SIT, UAT, PROD and Hypercare.
-  Absence of capabilities in data governance, ownership, integrity, accuracy, and structure.
-  Build user-friendly reports for business validation and sign off.

Transformation Journey

We came on board as the end-to-end QA & testing partner for the client.

The key highlights of the approach to the transformation journey:

- ✓ Built the E2E automation strategy to remediate data leakage.
- ✓ Defined the testing process from scratch
- ✓ Defined two-pronged test strategy for IT validation and business validation along with executive summary reports.
- ✓ Enacted the role of data owners and maintained data accuracy.
- ✓ Executed data migration for ready-to-use in production.
- ✓ Created reconciliation reports to clarify data validation migration in the UI
- ✓ Designed a regression suite to assure migrated data is ready for use on the portal.
- ✓ Identified data ambiguities and quality issues, and resolved them.

Impact

Forsys enabled the client to:

- **100% test coverage for data migration & data validations.**
- **Automated 60% of manual tasks.**
- **Digitize 90% of manual test cases.**
- **Boosted test cycle time by 50%**
- **Improve go-to-market time by 40%.**
- **Enhance cost savings by +25%.**
- **Remove functional defects in production by 90%.**



About the Client

The client operates the largest, most diverse private aircraft fleet in the world and offers a full range of personalized private aviation solutions to meet—and exceed—the high standards of the world's most discerning travelers.

Solution Components

MANUAL

- Functional Testing
- Data validation testing
- Database Testing
- User Interface Testing
- End-to-End Testing
- Integration Testing
- Smoke Testing
- Regression Testing

AUTOMATION

- Data Migration/Validation Testing
- Python Automation