holistic asset airworthiness management

Case Study Stats, at a glance:

85 ASSETS ENROLED	231.9 Gb TECHNICAL RECORDS DATA UPLOAD	12 CLIENT CUSTOMISATIONS	c. 34,400 DOCUMENTS & FILES	2 Months TOTAL MIGRATION TIME

Case Study - Situation

Aviation assets are leased and operated globally, spread across diverse operators in varying jurisdictions. Maintaining compliance visibility of these assets regarding both regional regulations (for instance Indian DGCA) and global regulations i.e. FAA and EASA is often challenging. Regulators routinely issue airworthiness directives, advisory circulars and safety notices to operators, alerting them to serious safety issues that affect assets. Furthermore, the manufacturers of the airframe, engines and components also issue their own airworthiness related advisories, applicable to the assets. In this study an engine lessor with a mixed fleet of narrow body and wide body engines in the fleet was seeking a scalable solution to address these points and to manage their assets from an airworthiness standpoint. The incumbent solutions in the market were primarily curated to suit a Continuing Airworthiness Management Organisation (CAMO), but not necessarily suited to a lessor who manages their fleet airworthiness in-house and on an ongoing basis.

Remedy

SPARTA's Airworthiness Management solution was designed and developed as a green-field application within its existing suite of solutions. The application had to fulfil a need for high specificity, addressing the needs of airworthiness monitoring, data analysis, data entry & updates, and forecasting of compliance regulations at both a task as well as asset level. The user experience was designed such that it ensured intuitiveness and ease of use while maintaining a strong commonality with the other solutions within the wider SPARTA platform such as Projects Management and Records Dataroom which complemented the Airworthiness Management application. Seamless integration was ingrained throughout the application such that the technical records of the assets achieved two-way accessibility from the dataroom as well as from the Airworthiness Management application. Lastly, customer requirements for customisations were also taken onboard to deliver a solution that fitted well with the customer's operations and business model.

Outcome

Within a span of only 2 months, the technical records for the entire fleet of assets were migrated from an FTP server to a fully online technical records solution, powered by the in-house records analysts and data management team. The airworthiness data for the assets was set up through bulk status sheet and report upload to establish a reliable updated system for use across the company's business verticals. Custom reports and change requests were addressed promptly with in-house expertise and developer prowess.

Key expert domain stats*:

36 CLIENT CUSTOMISATIONS	122 ASSETS ENROLED	~465.0 Gb RECORDS DATA UPLOAD

SPARTA
DIGITAL ASSET MANAGEMENT PLATFORM

* Overall statistics included here were verified as accurate - NOVEMBER 2024

supporting your
ASSET LIFE JOURNEY

Asset Sale / Purchase
Simplify asset trading deals with Projects and Records Digitisation. Providing seamless 24x7 globally available asset information, reports, data and records access.

01

Active Asset Management
Keep your finger on the pulse, enhance visibility and retain asset values with Lease Management offering real-time executive dashboards, reports, lease and transition manager.

02

Asset Value Pulse Check
Maintain clear visibility of your fleet values for strategic trading decisions or access online values for prospective assets ; Powered by ISTAT Certified Senior Appraisers together with our comprehensive online app - fin-S.

03

Asset Risk Mitigation
Integrate the commVerge app with your fleet to fly-forward, analyse future events, and map EOL exposure in real-time. Helping you stay ahead of the curve and actively mitigating asset risk.

04

Continuing Airworthiness
Designed by CAMO professionals, our integrated systems help you maintain overwatch on the airworthiness of assets throughout the life term, and seamlessly transition assets across global jurisdictions.

05

Go Completely Digital
Achieve your Digital Transformation goals with our managed IT services. Combining Cloud Development, Integration and Analytics to deliver world class cloud solutions.

06

offering complete
DIGITAL ASSET MANAGEMENT
solutions

ACUMEN