DATA3
SECURE DATA • SMART SOFTWARE

Electronic Fleet Data Management System (EFDMS)

CASE STUDY

1. BACKGROUND //

One of the largest defense contractors in the world, operating an airplane manufacturing operation for their European customers, was required by aviation regulations to maintain very detailed information on the airframe and all component parts. This information consisted of manufacturer names, serial numbers, engine hours, maintenance records, and parts reliability, predictive analysis, and rogue unit identification. To identify and track this information the company had established an entire department that was ineffective and untimely in their reporting of information to management. The compilation process was largely manual and was often six months or more behind the actual events. Management had significant exposure both from a compliance perspective as well as their legal liability with regard to the tracking of parts.

2. THE CHALLENGE //

The company had over 300 customers operating regional and nation airlines who were required to report this information to maintain compliance with aviation regulations. With no formal system or process to rely on, the company was spending a significant amount of money each month on

staffing and systems, and was receiving data in various formats, file structures, and images. To put it succinctly, they had a big mess on their hands.

3. THE SOLUTION //

DATA3 was brought in to work with management in developing a solution that utilized current technology to solve this significant problem. After three months of interviews and system design meetings with management, DATA3 designed and implemented a sophisticated parts management system we call Electronic Fleet Data Management System (EFDMS). The system was designed using our proprietary software development methodology that allowed the customer to reduce the department down to one part-time employee who could run internal reports one hour after the data was received.
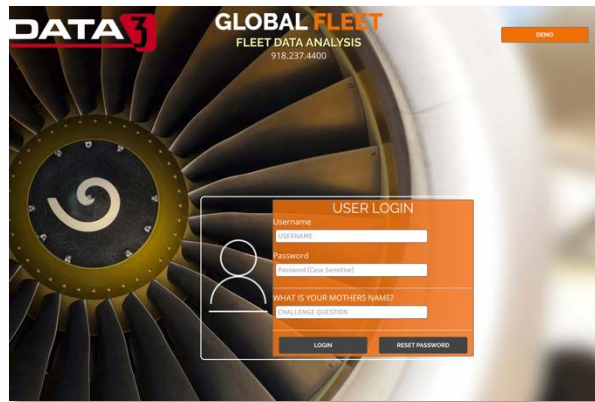
The web portal developed by DATA3 used an Oracle backend for its database and delivered the application over the web. DATA3 also created a set of intuitive tools using artificial intelligence that successfully detected the data received in various formats. The tools further normalized the data, extracted the required data fields and imported the data into its own data repository.
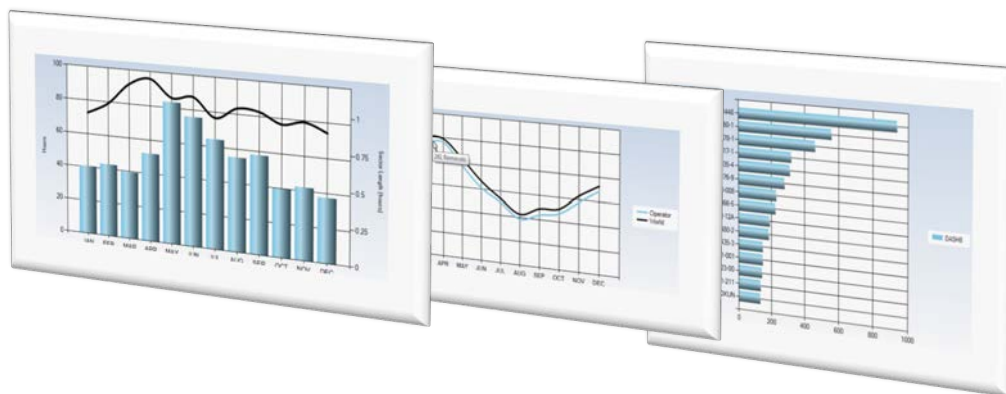
4. RESULTS //

The company was able to reduce the department to one person and to provide critical reports that were very accurate to management in a matter of days. The system remained in operation for over 18 years and saved the company millions of dollars during its life cycle. EFDMS ran without any bug fixes or application specific patches for last 8 years of its operation. The system was so successful that the customer requested a number of enhancements over the years and ultimately integrated it with its main web-portal using single sign-On (which was also developed by DATA3).

About DATA3

DATA3 is a Tulsa based company at CityPlex Towers that has been in business since 2001. The company provides the following services:

- Datacenter
- Business Continuity Planning
- Software Development

The company operates three datacenters with a combined datacenter space of over 18,000 sq. ft. with another 35,000 sq. ft. available for business continuity services.

The company also offers custom software and mobile development using its proprietary Enterprise Focused Software (EFS) strategy. Its web portals and Single Sign-On solutions are accessed by customers from over 35 different countries.

Some of its customers include American Airlines, ONEOK Energy, Pop TV (previously known as TV Guide), AAR Corporation and BAE SYSTEMS.

www.datathree.com