

Marketing Department

The principle partners of Enterprise Systems Solutions LLC (ESS) – having over 40 years of combined experience on software projects for airlines Maintenance and Engineering (M & E) industry – researched that there was an huge potential for a good software product for the M & E industry. Having worked on the then existing products they were aware of the pitfalls and shortcomings of the available software. So the idea of Maintenance Engineering System – 2000 (MES-2000) was born.

Requirement Analysis

Having decided to launch a product, the next step was to coalesce the combined expertise and knowledge and translate it into a working and user-friendly software to suit the industry and adhere to the Manufacturers’ maintenance requirement and Aviation Authority’s safety requirements. Over 4000 man-hours of research was put into studying the few software systems that were available in the industry and capturing the operational problems the airlines were facing. The aim of the software was to be “The” solution for all aircraft maintenance related jobs.

Systems Specification, Architectural Design

After capturing and analysing the industry requirements, the next step was to put them on paper in forms of entity relationships, data flow diagrams, inter-module relationships. A very flexible design for a generic software that is very maintainable and can be customised easily to meet any airlines requirement was developed.

Detailed Design, Development Tools Selection

Following the system design, the next decision to make was the development tool. Taking into consideration the massive data, data history, migration issues and the major requirement for OLTP, Oracle was the best choice for the database. On deciding the development tools, the detailed program design containing system flow chats, program flow charts, information requirement tables, table relation charts, form and report layouts were designed.

Coding

Having all the design on paper, the job of coding commenced.

Unit Testing

As the programmers completed and checked their coding, the Quality Assurance department ensured that each individual form and report were thoroughly tested and error free.

Integration Testing

The most important part of the program development cycle is Integrated Testing. Our QA department carried out rigorous testing to ensure that all forms and reports working in isolation were working to give the desired output as an integrated system.

Site Installation, Enhancement And New Features

The final stage of one cycle is installing the software at the client site study the clients' environment and suggest enhancements to suit their business need. At this stage, the actual users of the software too could suggest enhancements and / or new features in the software.