

## APU software development project saves client approximately 50%

### Results at a Glance

#### Problem

Heavy workloads combined with changing priorities led to overburdened engineering resources, budget overruns and missed deadlines

#### Solution

Provided FAA approved project plan along with imaginative connectivity solutions to deliver a firm, fixed-price embedded engineering solution for full lifecycle DO-178B certifiable software projects

#### Results

Prevented software development budget overrun on APU, which exceeded \$1M on some projects

Development time cut by 12-18 months

### Client Profile

The company's heritage spans the course of 100 years. Today, they employ approximately 18,300 people at more than 50 facilities worldwide. With \$6.2 billion in revenue for 2008, they are the world's largest supplier of technologically advanced aerospace and industrial products.

The client designs and manufactures aerospace systems for commercial, regional, corporate and military aircraft. Also, they are a major supplier for international space programs. Their industrial products serve industries ranging from hydrocarbon, chemical and food processing to construction and mining.

### Business Problem

Due to stretched bandwidth and changing priorities, deadlines and budgets were being missed for multiple projects. Several software projects were being conducted concurrently due to the backlog, and the client did not have the necessary resources to complete the work.

Prior to Technisource involvement, software outsourcing had been limited to projects only, which failed to alleviate workload crunch of the client's overextended resources. The client needed a process and a supplier that would generate all project plans and complete a full lifecycle software project while enabling the client to retain ownership of the final FAA certification.

### The Technisource Solution

Technisource supplied a senior project manager and a DO-178B certification consultant to work with the client's engineering, certification and quality functions to develop a solution that permitted Technisource to take full ownership of the software development project while enabling the client to retain ownership of the final product.

The partnership allowed for joint responsibility in developing the software program development plans. Shared connectivity solutions were developed for configuration management, software quality assurance records and problem reporting mechanisms. The solutions developed were documented in the finalized software project plans and have subsequently been accepted by the FAA as the basis for a certifiable software project.

### Value Delivered

Technisource was able to reduce the client's risk of budget overruns for the defined scope of work by as much as 50%. Additionally, the agreed upon schedule reduced development time by 12-18 months.