



## Cost-Effective, High Quality Manufacturing Through Innovative Solutions

### A Success Story: Vought Aircraft Industries.

When Vought Aircraft Industries needed a strategic Information Technology (IT) provider to design and support their new state-of-the-art manufacturing and assembly facilities for the Boeing 787 Dreamliner program, they turned to Dell to define and implement industry best practices to support this dynamic aerospace program.

#### The Challenge.

Vought Aircraft Industries, Inc. (Vought) came to Dell with a short time frame to design and build their two new facilities' infrastructure from "greenfield" to "full functionality" in just two years. This implementation also involved complex systems integration, both inter- and intra-company, as the systems must simultaneously support both Vought's manufacturing facility and Global Aeronautica's (a Vought-Alenia joint venture) assembly and integration facility.

Besides the pure IT components, Vought also needed to ensure cost-effective, high-quality manufacturing processes and support systems to meet Boeing's delivery timelines. Additionally, the infrastructure's outputs needed to deliver to (or support) current-day lean manufacturing principles.

#### The Solution.

As the business process architect, systems integrator, information technology outsourcer and IT Program Manager, Dell, and the Vought cross-functional team designed and delivered a comprehensive Business Integration solution for both Vought's manufacturing facility and Global Aeronautica's assembly and integration facility.

The goal was to help Vought meet the aggressive and technologically challenging requirements of the 787 program. This involved a cross-functional team to design and deliver all of the required business processes and supporting technologies for the facility, including full deployment and integration of their Product Lifecycle Management, ERP, manufacturing execution, and back-office systems.

"Dell Services has played an important role to help us design a world-class manufacturing site that is producing composite structures for one of the most advanced commercial aircraft ever created. They have fulfilled our business needs and have truly proven themselves to be a trusted partner. We look forward to continuing to work together in ways that support Vought's vision of advancing flight through excellence in aerostructures."

**Elmer Doty**

President & CEO

Vought Aircraft Industries, Inc

#### The Result.

A strong collaborative partnership remains one of the highest priorities from the initial phase of the relationship through the ongoing implementation. Vought requires and is benefiting from a solid but flexible foundation for these "Greenfield" facilities, supporting the innovative and demanding needs of the 787 program. Through sound strategic planning, as well as leveraging our strengths in IT and business services – ERP, process design, and complex integration through infrastructure management – Dell is delivering the following benefits to Vought:

- Alignment of IT and business goals
- Implemented fully integrated business systems and shop floor HMI systems, on-time and on-budget
- Implemented SAP and stood up infrastructure at first of two sites on-time and on-budget

- Trusted services provider willing and able to provide the flexibility required in cutting-edge manufacturing environments

The benefits shown so far to Vought have resulted in an expanded role for Dell to include a more active role in the integration of the Product Life Cycle suite of software, and additional responsibilities for Training and Development, as well as providing additional business and operational process consulting.

#### About Vought Aircraft Industries

- One of the world's largest suppliers of aerostructures; their products include fuselage subassemblies, nacelles, thrust reversers, empennage structures, and wings.
- Headquartered in Dallas, TX with sales exceeding \$1.8 billion and about 6,000 employees.
- Customers include Boeing, Airbus, Gulfstream, Northrop Grumman, Lockheed Martin and more.

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