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HP | Success Story | Aerospace & Defense

HP &WDS Help Boeing Launch New Era of MilitaryAircraft Production with IMACS

Boeing F18 E/F

BOEING

"IMACS represents a significant reengineering of the Military Aircraft & Missiles Systems' process for aircraft production. The use of commercial off-the-shelf ERP software, running on high-performance computers, enables us to employ industry best practices in many of our key business processes."

Bill Duncan, IMACS Program Director
Boeing Aircraft & Missle Systems Group

Executive Summary

The Boeing Military Aircraft and Missele Systems Group-St. Louis (A&M - St. Louis) has completed a major manufacturing process reengineering project that included a 4-year implementation of **IMACS (Integrated MAnufacturing Control System)**, one of the larger and more complicated ERP systems to be deployed. The new system is already helping drive significant operational improvements and position Boeing in the competition for future programs, like The Joint Strike Fighter (JSP).

Significant Firsts

- IMACS is the first use of a COTS client/server ERP system to plan and manage the production of major military aircraft, and
- the first time that A&M - St. Louis, with massive data volume, has been able to achieve MRP II capabilities in a client/server architecture.

Results

IMACS has achieved all its major goals. The following results are focused on the Boeing T-45 Navy trainer manufacturing program:

- 100% improvement in Return on Net Assets (RONA)
- 35% reduction in critical path cycle time
- 33% reduction in parts shortages
- improved cost management

Challenge

Leapfrog competition by leveraging the most advanced ERP and manufacturing control systems to streamline key business processes, institute best practices, and institutionalize improvements.

Solution & Partners

Hewlett-Packard Consulting / Enterprise Servers, Oracle RDBMS, and Western Data Systems' CompassENTERPRISE were the key elements in implementing IMACS as a highly-available, secure, 3-tiered cleint/server ERP system that allowed Boeing to reengineer business and manufacturing processes.