



The MCA Solution Suite

is the industry-leading product for spares forecasting, inventory optimization, provisioning and planning and has helped organizations reduce inventory costs by 15% to 40% while increasing service levels and reducing response times. Our customers are aerospace industry leaders including:

The Challenge of Aerospace Inventory Planning

As outsourcing and globalization continue to increase complexity in the aerospace service supply chain, the effective management of this network is becoming more challenging.

Airlines, MRO organizations, along with aircraft and component OEMs are striving to optimize their service networks under increasing pressures to lower costs while improving fleet availability, reducing AOGs, and more efficiently managing maintenance activities. **To reach these goals, they must navigate a range of challenges including:**

Difficult-to-Forecast Demand Drivers

Aerospace organizations must forecast and plan inventory in an environment that includes sporadic demand driven by unplanned failures as well as planned maintenance operations with varied parts demand. Line maintenance, heavy maintenance, and component maintenance have varied planning requirements that must be coordinated.

Requirement for High Fleet Availability

Aircraft downtime due to AOGs is costly and impacts customer service. Aerospace service organizations must be able to meet fleet availability requirements, while dealing with changing flight schedules, varied MTBURs and planned and unplanned maintenance activities.

Dynamic Global Supply Networks

Managing aircraft consumables and rotables across a global multi-echelon network with long and variable supply lead times is extremely challenging. Optimal positioning of inventory and effective management of allocations, dynamic rebalancing, and repair/buy decisions are critical to achieving business objectives.

BOMBARDIER



EADS



MOOG



Rockwell Collins



MCA Solution Suite Capabilities

MCA helps leading aerospace organizations reduce supply chain costs while improving fleet availability and responsiveness.

- Forecasting of parts with unpredictable demand for planned and unplanned maintenance events across multiple fleet types by blending advanced statistical, replacement rate and causal forecasting methods with scheduled demands
- Manage optimal rotatable pool inventory & repair/buy determination
- Initial provisioning, allocation, redistribution, and sourcing of parts across a global network
- What-if scenario analysis for contract pricing, reliability/cost tradeoffs, and determination of long-term expenditures for parts and repair
- Manage to real world service targets such as part fill rate, aircraft availability, and customer wait-time, all with budget constraints

Managing Performance Based Contracts

Performance based contracts are increasingly utilized in both the defense and commercial industries to help reduce costs and improve equipment availability by shifting more responsibility and risk to part and maintenance suppliers.

Although contracts vary in scope and performance metrics, the MCA Solution Suite can help:

- Evaluate the feasibility of contract terms during the bidding and contracting phases of performance based contract negotiations
- Maximize the profitability of contracts and “power-by-the-hour” scenarios
- Improve responsiveness to customer requirements

“ The question is how do we keep flying at the lowest cost? The maintenance and repair side is a major cost driver, and that represents an opportunity to improve performance and cut costs. The fundamental problem is that you’ve got a piece of equipment that costs millions of dollars; it has to be kept flying, and it has to be done safely. ”

- Dr. Morris Cohen, Founder and Chairman, MCA Solutions

MCA Deployment Options

MCA Enterprise Edition

- On-premise for enterprise customers
- MCA consulting aids in deployment and installation



MCA OnDemand Edition

- Hosted solution in secure data center
- Planning Care to help in planning process
- Significant reduction in IT support required



MCA Desktop Edition

- Single user, low cost and easy to deploy solution
- Packaged with all required software components
- Interactive Rapid Model Builder



World Headquarters
 Two Penn Center Plaza, Suite 700
 1500 JFK Boulevard
 Philadelphia, PA 19102
 Tel: 215.717.2180
 Fax: 215.717.2189
 info@mcasolutions.com

www.mcasolutions.com

EMEA Headquarters
 Mechelsesteenweg 277
 B-1800 Vilvoorde
 Belgium
 Tel: +32 2 254.85.42
 emeasales@mcasolutions.com

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