



PRODUCT APPLICATION

SPAR™ for MRO is Keeping You One Step Ahead

Raise strategic confidence and long-term cost-effectiveness of MRO contracts with SPAR™'s "top-down" predictive modeling

Introduction

SPAR™ from Clockwork Solutions, *The Predictive Modeling Experts*, takes the guesswork out of highly complex, multifaceted heavy equipment and engine Maintenance, Repair, and Overhaul (MRO) contracts.

SPAR™ utilizes highly accurate Monte Carlo predictive modeling techniques in combination with effectively analyzing historical data together with unique and specific business performance goals, SPAR™'s Monte Carlo simulation models are in touch with your business today – and always ready to point you towards tomorrow.

Constantly updated, and tightly integrated with MRO systems, SPAR™ goes far beyond built in MRO analysis tools. SPAR™ continuously learns and analyzes the interrelationship between operational goals, logistics, maintenance, and manpower - deploying a robust set of custom-defined predictive indicators to identify and address existing and future key business performance issues.

The results – more accurate and future-proof decision-making, better understanding of fleet behavior, real-time alerts of potential performance problems, and substantial savings in MRO resulting in higher profitability and increased fleet availability.

SPAR Predictive Modeling for MRO Delivers

- A long-term, strategic perspective based on actual operational data together with
- Custom-defined business goals
- Lower MRO risk and expenditures through accurate and future-proof decision-making
- Increased confidence in MRO performance and expectations
- Increased control of costs based on actual on-the-ground data, combined with specific business goals

The Challenge: Predictable Long-Term, Cost-Effective MRO Performance

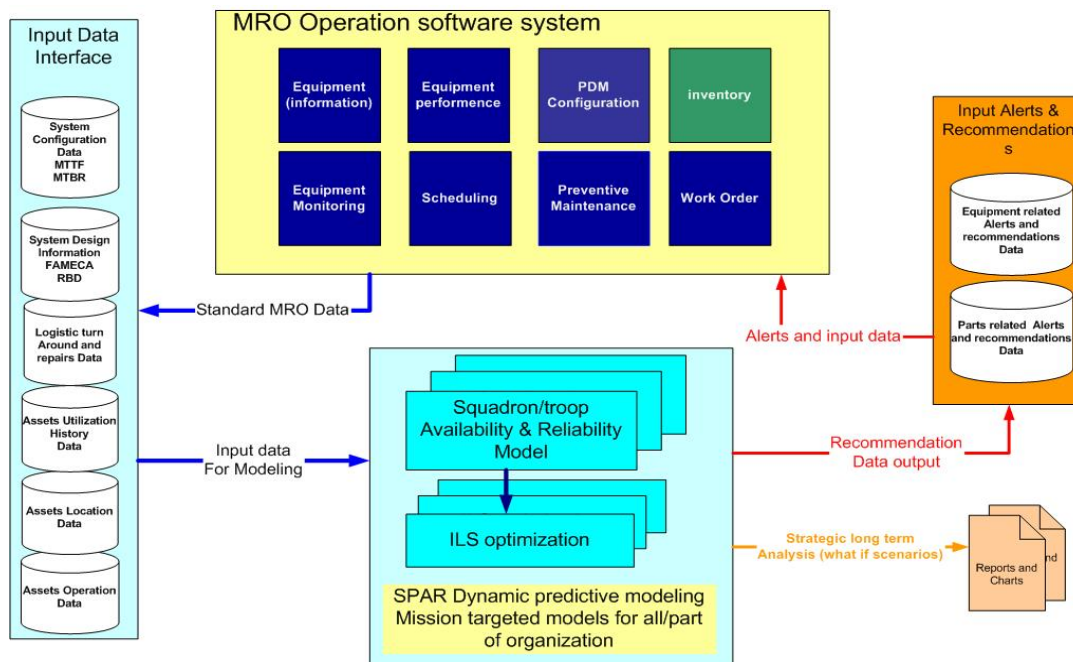
As the MRO industry switches from time/material pricing to fixed-price CLS (Customer Logistics Support), and PBL (Performance Based Logistics), accurate predictive modeling becomes mission-critical for both MRO vendors and clients. High performance requirements for both business and military fleets, coupled with imposed cost reductions and cutthroat competition, have made cost-effective maintenance, repair and overhaul services a key factor in profitability.

At the same time, the sheer number and complexity of factors affecting fleet management continues to increase. And, as the volume of performance and activity-related data available for analysis from MRO systems continues to expand exponentially, decision-making reaches new levels of complexity.

Native MRO software system analysis tools allow collection and review of performance indicators alone, attempting to identify trends in existing data only. These tools are inherently limited in their abilities because they draw on information in the "closed loop" of the MRO system, without taking into account the significant influence of external business and operational considerations.

In order to achieve effective, strategic life cycle planning, a "top-down" approach is required, whereby business performance goals are first defined, and asset management is suited to these goals – instead of the opposite.

Integrated Dynamic Modeling for MRO Provider – Implementing Lifecycle Simulation Decision Support Solutions



SPAR Predictive Modeling – Especially for the Maintenance Community

Specially customized to the MRO industry, with numerous successful implementations worldwide, Clockwork Solutions' SPAR™ provides highly accurate predictive modeling solutions based on a wide range of data input, customized aviation industry-specific business logic definitions, and a unique self-learning "hybrid optimization" approach to analysis.

SPAR™ is a highly robust Monte Carlo discrete event simulation and modeling platform for predicting and analyzing system life cycles. SPAR™ uses information about the components that make up a system (e.g. reliability and cost of LRUs), the intended use of the system (e.g., variations required fleet availability), and the system's support infrastructure (frequency of maintenance, availability of resources) to predict future behavior. With SPAR™, the user creates a model of the system under examination, automatically building a mathematical characterization which takes into account such crucial factors as asset configuration, asset aging, operational processes, and maintenance policies. This model quantifies expected asset performance and life cycle cost, and enables effective assessment of various MRO scenarios before they are implemented.

About Clockwork Solutions

Clockwork Solutions is owned by Formula Vision Technologies (TASE: FVT), a member of the Formula Group (NASDAQ: FORTY, TASE: FORT), Israel's largest software house. Clockwork Solutions' headquarters and R&D office is located in Austin, Texas. Founded in 1993, Clockwork Solutions' expert systems are helping Fortune 500 companies worldwide more effectively plan and control complex, high-value systems through advanced predictive modeling solutions.

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