



CLOCKWORK SOLUTIONS

CORPORATE INFORMATION

Corporate Snapshot

Introduction

Clockwork Solutions is a leading services and applications provider of asset management solutions to help decision makers meet business objectives by improving performance and reducing life cycle costs of complex expensive assets.

Clockwork has the technology, methodology, expertise, and experience to assist clients in the prediction of:

- Expected System/Equipment Performance
- Workload Demands
- Optimal Parts Requirements
- Optimal Maintenance Requirements
- Unit Level Life Cycle Costs
- Overall Life Cycle Costs

Clockwork Solutions clients are applying SPAR-based technology in the areas of Life Cycle Management (LCM), Performance Based Logistics (PBL), Contractor Logistics Support (CLS), Readiness Based Sparing (RBS), Reliability, Availability, and Maintainability (RAM), Design for Supportability, System of Systems, Fleet Management, Risk Based Inspection (RBI), and Condition Based Maintenance (CBM).



Technology

Clockwork's success is based on our powerful, proprietary SPAR™ technology, a software package which embodies the fruits of over twenty years of research and development. Clockwork has also developed a series of SPAR™ based applications that address specific concerns in various industries, such as STORM™ (processing), ATLAST™ (defense), and PS-PLUS™ (electricity).

SPAR™ yields valuable predictions of the performance of complex industrial systems over their lifetimes. It copes uniquely with such real-world risk-to-performance phenomena as:

- Time and Situation Triggered Events
- The Effects of Component Aging, Wear, and Age Initialization
- Sparing Strategies
- Uncertain and Incomplete Data
- Variable Demands on a System Over Time
- Effects of Interactions Among Components

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Clockwork Solutions Inc. * 115 Wild Basin Road Suite 301 * Austin, TX. 78746 * Office 512-338-1945 * Fax 512 338-1946

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- Maintenance Capacity, Effectiveness, Turnaround Time, and Strategies
- Effects of Atypical Operating Conditions

Methodology

Traditional analytical methodologies are significantly limited and unable to evaluate real world complexities in the operations, maintenance, and support of complex systems and equipment.

SPAR™ technology is a radically different method that combines the general principles of Monte-Carlo simulation theory with proprietary math algorithms. Using SPAR™, our modelers apply stochastic simulation theory to practical issues of system modeling and prediction, yielding highly accurate and quantified results.

Expertise

The SPAR™ simulation engine has been continuously field tested and refined over the past 19 years by Clockwork professionals. During that time, our team of analysts and modelers has also refined their own skills and problem solving methodologies. Clockwork's team consists of Mathematicians, Engineers, Statisticians, Software Developers, Database Architects and Analysts, and other technical specialists.

Experience

Since our founding in 1985, Clockwork has performed studies for world-class industry leaders who have realized over \$3B in additional value thanks to our life cycle performance evaluation software. These benefits come from reduced cost of production and increased availability of complex and expensive resources.

Past and present users of SPAR™ and clients of Clockwork include the US Army, Lockheed-Martin, American National Power, BP Amoco, the US Air Force, ABB, Dow Chemical, British Ministry of Defense, GE Aircraft Engines, Raytheon, the Federal Aviation Administration, and over 100 other enterprises worldwide.

Corporate Structure

Clockwork Solutions, Inc., was incorporated as a Texas business in 1993, and is a subsidiary of the Clockwork Solutions, Ltd. Clockwork Solutions has US offices located in Austin, Texas and Huntsville, Alabama.

To enhance our ability to provide quality solutions to clients in North America, Europe, Asia, and Australia, Clockwork has formed partnering relationships with several strategic players in key industries, including DEI (Plant Asset Management, US), KBC Advanced Technologies (Oil and Gas, International), LSC (Aviation and Military, UK), BMT (Reliability, International), and TÜV (Power and Defense, Germany).

Contact:

Email: info@clockwork-solutions.com

Website: www.clockwork-solutions.com