



## **Clockwork Solutions Exhibits at 2002 Defense Logistics Convention**

*Arlington, VA - February 6, 2003*

Clockwork Solutions, Inc. ([www.clockwork-solutions.com](http://www.clockwork-solutions.com)) was an exhibitor at the 2002 Defense Logistics Conference. The conference was rescheduled from November due to scheduling conflicts with other Defense sector tradeshows taking place the same week, and was held on February 3, 4, & 5, 2003. Clockwork took the opportunity to unveil our Aircraft Total Life cycle Assessment Software Tool (AT-LAST), forecasting the impacts of what-if scenarios on maintenance and logistics policies of weapon system fleets.

On the first day of the conference, Clockwork Solutions, Inc., President, Paula S. deWitte, Ph.D., gave a presentation on "Forecasting Requirements to Ensure Optimal Maintenance of Aging Systems." This presentation covered maintenance in the defense domain, the additional problem of maintaining aging systems, and included a case study on a project performed using our AT-LAST technology. Paula then presented a summary of Clockwork's specialties, products, and customers; and concluded with an overview of Clockwork Solutions' work assisting the Defense community with lowering life-cycle costs, improving readiness, and providing the accurate and timely requirements necessary for effective supply chain operation.

Clockwork's traveling exhibition highlights our ability to model a system's entire life-cycle, accounting for aging components, as well as maintenance and sparing policies. SPAR technology is a perfect fit into ERP systems that currently utilize analytic techniques for optimization.

AT-LAST currently supports Army Aviation by formulating a current state of a fleet of weapon systems through access to maintenance management automation that delivers TAMMS-A records to AMCOM IMMC. The simulation operates airframes, by tail number, according to operations profiles, and produces unscheduled and scheduled removal events according to location and age of components over time. It then administers a capacity-constrained maintenance and logistics support process, necessary to correct unserviceable assets back to operational conditions and states.

Using AT-LAST, a projected return on investment over time in terms of readiness and costs can be determined, based on decisions to change sustainment policies, such as increasing or reducing part life-limits, life-limit screens, repair capacity, times to repair (improved tooling or methods), flying hour programs, spares, order lead times, fleet size and more. Although developed to support the complexities involved in the management of time-tracked components within aviation, AT-LAST has a variety of applications across complex military systems in general.

AT-LAST was built on top of SPAR – Clockwork's modeling and simulation technology for predicting system behavior, reducing asset ownership cost and increasing performance. SPAR models are based on statistics and rules that define, at a detailed level, how elements of a system and its support infrastructure behave dynamically in time.

[Link to The Defense Logistics 2002 Website](#)

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