

ATLAST Technology Improvements

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With respect to US Military weapon system inventories, the difficulty of affordably maintaining readiness levels while systems continue to age becomes a growing problem. Clockwork Solutions, Inc. has developed the ATLAST simulation model to support life-cycle, simulation-based, logistics impact forecasting for new and aging weapon system fleets. The system is unique in that it does the following:

- Captures the current, as they are in the field today, state of a fleet of weapons systems.
- Operates them according to operations profiles specific to the base at which they are located.
- Forces failure and life-limited events according to location and age of components.
- Administers a capacity constrained maintenance and logistics support process necessary to correct unserviceable assets back to operational conditions and states.

Clockwork Solutions is continuously striving to add valuable modules to the ATLAST software. Investments made by both the US Army and Clockwork Solutions internally are collectively generating technology innovations that provide both model-development and the post-simulation decision making flexibility and strengths.

2004 saw the development of several new advanced utilities for ATLAST, including a *Buy Plan Analyzer*, to assist with spares buys within 2nd and 3rd level maintenance concepts; a *Deployment Push Pack Optimizer*, to improve the calculation of optimal Line Replaceable Unit (LRU) Spares Push Packs; and a *Historical Performance Data Miner*, which quickly generates a graphic assessment of the current fleet condition metrics, including component failure types, removal rates, age distribution and number of repairs.

Clockwork is planning to continue these ATLAST enhancements in 2005 with the goal of providing increased analysis support for Performance Based Logistics (PBL), Condition Based Maintenance (CBM), and Continuous Technology Refresh (CTR) business case analysis.

In addition, Clockwork is working toward greater wholesale and retail enterprise integration by transforming ATLAST models into living models, i.e. receiving direct input from the source data feeds. As the equipment within the model changes, the model will capture those changes prior to simulation analysis and supportability forecasting. Completion of wholesale retail enterprise integration will rapidly reduce the time to perform fleet data transformation and refresh, and greatly increase the data accuracy during this process.

For more information on Clockwork tools and services, contact us at 512-338-1945 or info@clockwork-solutions.com

[Link to ATLAST Product Announcement](#)