

## **Strides in Efficiencies for US Army Blackhawk fleet**

*Austin, TX*

Clockwork Solutions, Inc. (CSI) continues to assist the United States Army's Integrated Materiel Management Center (IMMC) in their efforts to achieve fleet availability goals while streamlining repair part costs for the numerous variations of parts on the UH-60A, UH-60L and UH-60M Blackhawk helicopters. The complexity of the fleet is compounded by the fact that the aircraft are fitted with components of widely different usage characteristics in terms of age and number of repairs. These helicopters are operated in environments of differing degrees of harshness and widely varying operational tempos. Such factors present some very complicated questions where simplifying assumptions to make the math easier can lead to errors in the analysis results.

CSI's expertise in the area of vehicle logistics for the Defense Industry is proving to be remarkably accurate, by utilizing the proprietary, highly accurate Advanced Total Life-cycle Assessment Software Tool (ATLAST™) to model the fleet stochastically. ATLAST easily handles all of the above variations in the fleet – and more. Modeling the various courses of action provides decision makers with the ability to “test drive” decisions prior to implementation.

The most recent comprehensive predictive modeling studies include Auxiliary Power Unit (APU) Analysis, Coated Main Rotor Blades, UH60M First Unit Equipped (FUE), Main Transmission A to L, and UH-60A/L/M Life Limit. For more details on these studies and others, feel free to view the [Case Studies](#) page.

### **About Clockwork Solutions ([www.clockwork-solutions.com](http://www.clockwork-solutions.com))**

Clockwork Solutions develops and provides advanced availability and life cycle performance modeling and simulation technologies and conducts modeling support and consulting services. Clockwork is proud of the work it is doing across the defense services to improve supportability of systems through performance based modeling and forecasting.

Clockwork Solutions' proprietary modeling technology, SPAR™, uses unique fleet/system discrete event simulations to build comprehensive, reliability-based predictive models of complex assets and their operational and logistical environments, such as a fleet of aircrafts, missile systems, a power plant and its distribution system, a group of chemical plants, etc.

Clockwork Solutions' customers include the US Army, the US Marine Corps, US Navy, Lockheed Martin, Raytheon, EADS Astrium, the Israeli Defense Forces, GE Aircraft Engines, Sikorsky Aircraft, Chevron, ConocoPhillips, and many others. Clockwork Solutions, Inc. is headquartered in Austin, TX, with satellite offices in Huntsville, AL and Stafford, VA.

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