US Army and CAS, Inc., Renew Clockwork Solutions Contract with the UH60A Improvement Effort

Huntsville, AL - Oct. 16, 2002
Clockwork Solutions' contract to provide Modeling/Simulation services for the US Army and CAS, Inc., has been extended once again. The UH-60 fleet is undergoing a Recapitalization effort. A function of this effort is to increase the system reliability of selected components. The recapitalization effort is being conducted by the Utility Helicopter Project Offices (UHPMO), in conjunction with the Integrated Materiel Management Center (IMMC) of the Aviation and Missile Command (AMCOM).

Clockwork's role in this effort has been to provide a stochastic model/simulation tool to support the assessment of reliability improvements for UH-60 components, and perform life-cycle predictive analysis for UHPMO. To meet this requirement, Clockwork developed the Aircraft Total Life-cycle Assessment Software Tool (ATLAST), used to forecast the impacts of what-if scenarios on maintenance and logistics policies of weapon system fleets.

The Statement of Work on the original subcontract has been appended to allow for additional work to be accomplished as a part of this on-going effort. Clockwork is now required to provide additional analytical support and simulation training for UHPMO and CAS personnel. This training will be delivered in the form of ATLAST modeling and simulation classes to be held in Huntsville, AL.

ATLAST 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 ATLAST, 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, ATLAST has a variety of applications across complex military systems in general.

ATLAST 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.

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