

## Clockwork Solutions Announces the Release of SPAR™ v5.1

*Austin, TX – January 9, 2004*

Clockwork Solutions is proud to announce the release of **SPAR™ v5.1**, the newest implementation of Clockwork's predictive modeling technology! SPAR™ has always been the powerhouse of reliability modeling applications for complex systems, and now with SPAR 5.1 our technology is even more powerful and useful than ever before.

SPAR 5.1 includes features such as:

- New output metrics including: 'Demand for Spares' and 'Cycle Time'.
- Vastly improved 32 bit BubbleMaker featuring support of SPAR Clocks allowing the user to dynamically generate their own events during the simulation.
- An advanced Parametric Batch Runner including options to change more user data.
- The ability to import/export User Array content to/from MS Excel.
- Enhanced navigation capabilities in a system's Reliability Block Diagram (RBD) through a bill of material tree and the ability to 'Find' system elements in the Graphical System Function Generator (GSFG).
- The 'Dynamic Graph' feature which shows the value of the variable as it changes during the simulation, as well as giving an expected average value across all histories.
- A new version of the Automatic Spare Parts Optimizer (SPARopt v1.6) featuring the ability to assign an initial spare stock and base the optimization from that level of spares.
- Fully backwards compatible with SPAR 5.0 project files.
- ...and many other enhancements and bug fixes throughout SPAR 5.1.

SPAR™ is Clockwork's proprietary asset modeling engine. SPAR technology consists of numerous extensions to traditional Monte Carlo techniques implemented in software. These extensions offer a method and tool for describing the fixed and the variable characteristics of a system in one model. SPAR then uses the model to predict the system's performance and cost.

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

Clockwork Solutions Inc., develops and markets performance based modeling and simulation products and provides modeling services. Clockwork's proprietary modeling technology, SPAR, uses proprietary Monte Carlo algorithms to build comprehensive, reliability-based predictive models of complex assets and their operational and logistics environments, such as a power plant and its distribution system, a fleet of aircrafts, a group of chemical plants, etc. Clockwork's customers include Bechtel, Chevron, Dow Chemical, US Army, Lockheed Martin, Raytheon, the Israeli Defense Forces and many others. Clockwork Solutions, Inc., is headquartered in Austin, TX, with an R&D center and European operations headquarters in Israel. Clockwork Solutions is owned by Formula Vision Technologies (TASE: FVT), a member of the Formula Group.

All customers with current maintenance contracts will receive SPAR 5.1 in the near future. Other SPAR customers may contact Clockwork Solutions, Inc., for upgrade pricing and information.

For more information on Clockwork Solutions, contact:

Clockwork Solutions, Inc.  
Tel: 512-338-1945  
e-mail: [info@clockwork-solutions.com](mailto:info@clockwork-solutions.com)