



Mirabilis Design announces the availability of dynamic satellite orbital information for hardware and software architecture exploration of land, air and sea based systems.

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**Mirabilis Design announces VisualSim interface to Satellite Toolkit from Analytical Graphics; Solution couples link and environment information with design and analysis of product specification.**

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**Sunnyvale, CA. — September 5<sup>th</sup>, 2005—** Mirabilis Design Inc. of Sunnyvale, CA, a leading provider of product architecture design software, today announced a new interface for its VisualSim software package that allows users to acquire dynamic orbital data for use in exploring power and weight requirements of their proposed system architecture, from STK 6.2, flagship software product from Analytical Graphics, Inc.

VisualSim interface to STK provides users with a high-performance, multi-query access to orbital data to tailor their modeling and simulation environments to size the hardware components and study the interaction between satellites in the proposed and existing satellite-communications networks. While VisualSim is able to model static orbit data, the new interface enables STK's users to dynamically link orbit data from that software into VisualSim Architect, thereby eliminating a possible duplication of effort and increasing simulation accuracy. A number of examples have been provided to enable the user to quick-start the usage of this capability.

“The VisualSim STK interface greatly expands the scope of validation and testing available to System Architects of complex space and air based systems”, says Deepak Shankar, President and Founder of Mirabilis Design Inc. Mr. Shankar also added that, “The combination of the VisualSim modeling library and the STK interface provides the first approach in modeling the entire spacecraft architecture for power, cost and weight analysis.”

The VisualSim interface to STK was originally built in collaboration with the Space Vehicle Directorate of the United States Air Force Research Labs at Kirtland Air Force Base in Albuquerque, New Mexico. This capability has been commercialized for use in the design of products targeted at applications such as reconnaissance, communications, navigation, and exploration. Products analyzed and specified using this interface will include satellite systems, missiles, rockets, unmanned aerial vehicles and other communication-centric systems.



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VisualSim enables users to conduct trade-off between classified vs. neo avionics architectures and to demonstrate goodness of choices in technology and topologies to guide investment decisions. The design can be tested for effects of different technology, scheduling of enhanced power-aware and power shedding policies. The trade-off studies can focus on performance metrics such as latency to response, utilization of the communication bandwidth of the entire mission, energy/ operation and effective throughput.

### **Availability**

VisualSim STK Interface is currently shipping and available on Windows, Linux and UNIX platforms. The STK Interface is an add-on to the VisualSim Architect and pricing for the Interface starts at \$1,700.

### **About Us**

Founded in 2002 and headquartered in Sunnyvale, CA, USA, Mirabilis Design is an innovative software company providing system simulation software for the conceptual design, performance analysis and architecture exploration of electronics and embedded software. Using the product, VisualSim, architects can quickly capture the behavior, architecture resources and use-cases of their proposed and existing system and conduct ad-hoc trade-off analysis. The advantage of the Mirabilis Design approach is 6X reduction in modeling time, over 80% accuracy of the analysis, consolidation of system-level design requirements into a single platform and creation of executable marketing documents out of simulation models. The product, VisualSim, is used by Designers, Architects and Systems Engineers in the Defense, High-Performance Computing, Wireless, Aerospace, Networking, Automotive and Semiconductor industries.

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