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ZedaSoft, Inc. Awarded Portable Dual Dome Simulator Contract from Lockheed Martin's Advanced Development Programs group.

(Fort Worth, Texas – June 16, 2011) Fort Worth-based ZedaSoft, Inc. has been awarded a contract to provide a dual dome reconfigurable F-16 simulator system by Lockheed Martin Aeronautics Company (LM Aero) Advanced Development Programs (ADP) group in support of the Automatic Collision Avoidance Technology (ACAT) Fighter Risk Reduction Program (FRRP).

ACAT/FRRP is a follow-on phase to the Aviation Week Laureate award winning Ground Collision Avoidance System (GCAS) program developed with the U.S Air Force Research Laboratories at Wright Patterson AFB, Ohio. This new phase will test similar automatic collision avoidance technologies between USAF fighter aircraft.
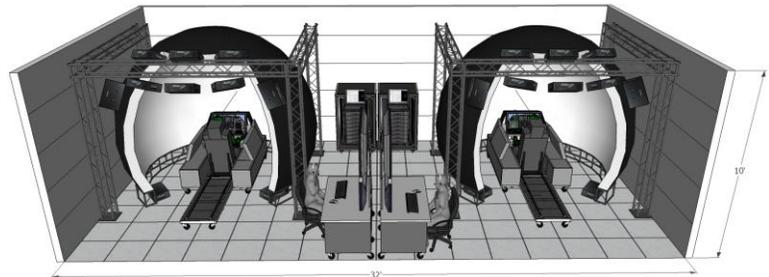
The dual dome solution provides two F-16C Reconfigurable Cockpit Systems (RCS) in high resolution large field-of-view display and projection systems from Immersive Display Solutions, Inc. (IDSI), and visual scene rendering software from MetaVR, Inc.

This simulation solution provides the balance of lower overall costs with a small 16' x 32' footprint installed under a 10' ceiling. The dome screen provides a 270 degree horizontal by +120 degree/-30 degree vertical field of view. This extended vertical field-of-view allows simulator pilots to look up 30 degrees past vertical while providing a 2.5 arc-minutes per pixel high resolution image.

The portable dual dome system will use the MetaVR Virtual Reality Scene Generator™ software to render the dome visual scene content. MetaVR will provide a terrain database comprised of satellite terrain imagery for the entire continental United States at 1 meter resolution with higher resolution insets for the Nellis AFB, Edwards AFB and Fort Worth NASJRB areas. MetaVR will also provide an authentic high-resolution 3D model of the F-16 ACAT aircraft, built for real-time simulation.

ZedaSoft's new RCS provides a set of hardware building blocks that can be interchanged to simulate - different aircraft types at a quarter of the cost of traditional defense simulators. The RCS family of simulators is a portable design with modular pieces that are designed to fit through standard office doorways. Great design care has been taken to allow the customers use of many standard simulator components and cockpit specific hardware.

"We believe that this integrated solution provided by our long-time partnered companies, provides the best test platform and value to this very important technology development program." says GW Estep, president of ZedaSoft.

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