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ZedaSoft, Inc. Delivers First Portable Dome Reconfigurable F-16 Simulator Solution to Lockheed Martin's ADP Group

(Fort Worth, Texas – October 1, 2011) Fort Worth-based ZedaSoft, Inc. has delivered the first of a two dome reconfigurable F-16 simulator solution to Lockheed Martin Aeronautics Company (LM Aero) Advanced Development Programs (ADP) group. These dome systems are in support of the Automatic Collision Avoidance Technology (ACAT) Fighter Risk Reduction Program (FRRP). The final dome and cockpit are scheduled for delivery to LM Aero the last week in October.

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 16' footprint installed under a 10' ceiling for each dome system.   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 uses the MetaVR Virtual Reality Scene Generator™ software to render the dome visual scene content. MetaVR provided 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 also provided 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. This design will allow the future testing of this technology in F-22 and F-35 configured cockpits. 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.

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