ZWEAVE, INC.

PLM SOFTWARE FOR MILITARY APPAREL, UNIFORMS, AND PROTECTIVE CLOTHING

CPLM™ - Zweave's Integrated Digital Environment for Clothing and Equipment

Topic Number: N02-008 (NAVSUP)

SBIR Investment: $700K
Project Revenue: $1.2M

Zweave, Inc.

107 South Street
Boston, MA 02111
(212) 343-3959
www.zweave.com
davidbuck@zweave.com
David Buck

About the Technology

With the advent of scanners that can measure individual human bodies in three dimensions, the technology is finally available to create electronic models of body size and shape based on the surface data of real people. The Army, Air Force, and Marine Corps have begun gathering 3-D anthropometric data on their personnel. A survey of the adult civilian population of NATO countries is also underway. There is now both an opportunity and a need to develop new tools for incorporating 3-D body size information in the design and manufacture of both military and civilian apparel. Zweave has taken advantage of this opportunity by developing software that compliments 3-D computer aided design systems for apparel.

Zweave has developed the first human-centered Product Lifecycle Management (PLM) software solution to support the information-management challenges experienced by federal and commercial manufacturers of apparel, uniforms, and protective clothing items. Through its CPLM™ Solution (Collaborative Product Lifecycle Management), Zweave supplies military uniform and apparel modernization program offices, their prime contractors, suppliers, and manufacturers with the tools to manage product lifecycles, from requirements determination through development and testing. The Army's Program Executive Office, Soldier, and Joint Project Management Office - Individual Protection (JPMO-IP) have awarded Zweave with a contract for continued development. Zweave's solution are in final stages of development and testing and will be piloted within several DoD laboratories.

Military and Commercial Significance

Both the Navy and the Army use Zweave's software solutions in the development of warfighter uniforms and safety equipment to support the configuration management of product development information from materials, fit, patterns, and specifications. The technology manages the bill of material data, created to assist the design and procurement efforts of program management offices and their network of partners from design, enginering and RD&E. CPLM also manages 3-D information including sizing systems, patterns, body scans, and garments.

APPLICATIONS

- Navy: Military uniform and apparel - Development and testing
- Air Force: Military uniform and apparel - Development and testing
- Army: Military uniform and apparel - Development and testing
- JPMO-IP: Military uniform and apparel - Development and testing
- Fashion and Apparel Industry: Designers and pattern makers

About the Company

Zweave has spent over three years researching and advancing the unique requirements and functionality of product engineering teams within multiple federal product development laboratories. The company has worked on projects for both military and civilian contractors, and has created the PLM requirements for Gap, Banana Republic, and Old Navy. Zweave anticipates capturing signicant DoD and commercial contracts in 2007.