

# **Functional Area 12 - Information System (IS) Development, Information Assurance (IA), and Information Technology (IT)**

**PSI Contract N00167-02-D-0038 DO 17, 21:** The Naval Surface Warfare Center Carderock Division (NSWCCD) is currently providing support to Submarine Command and Control Tactical Decision Aid (TDA) programs, such as STDA, and SPAWAR programs such as PC-IMAT and STAPLE. PSI is assisting that support through our unique capabilities in Multi-Level Security (MLS). PSI engineers are assisting the MLS program in network interface analysis, including interfaces for trusted data and services in the FORCEnet environment. PSI engineers are also assisting the MLS program in S&T analysis. These analyses are in-depth analyses of network and trusted services at all levels of the Task Force Web (TFW) infrastructure, including broker, middleware, and client data and methods. PSI is also performing threat analyses. PSI engineers are analyzing available data to determine the internal and external threat characteristics for submarine platforms. The goal of all these tasks is to replace existing point-to-point data exchanges as currently used by Naval Command and Control Systems and provide the interfaces, connectivity, data, and algorithms for the Information Technology systems aboard new generation submarines such as SEAWOLF and VIRGINIA.

**PSI Contract GS-35F-5839H:** PSI software and Information Assurance engineers and analysts are developing multi-level security (MLS) solutions and management tools to address difficult information sharing issues that are brought about by the use of disparate and specialize mechanisms for information exchange between networks of different and multiple security levels. As part of this tasking, PSI is defining requirements and developing and implementing a multi-level secure web server as a threaded, self-contained program. In addition, PSI is developing "trusted path" methodologies to authenticate and authorize users to view and share classified information across a LAN or WAN. PSI engineers are charged with identifying current smart card and biometric hardware, implementing role-based trust management languages, designing and implementing a generic client-side authentication computer and generic server-side libraries, and implementing tested Information Assurance practices.

**PSI Contract N00167-02-D-0038 DO 18, 24:** See description under Functional Area 6.

## **Additional Contracts:**

CTI Contract DTTS59-99-D-00441, Contact Mitchell Stewart, 303-445-3381