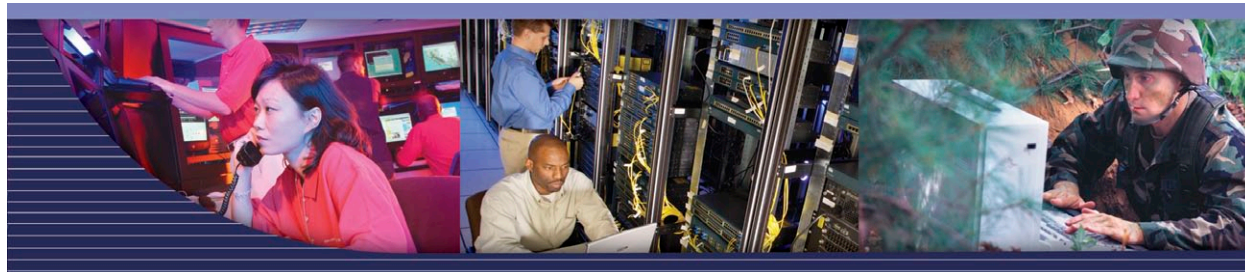


Securing Strategic Systems and Networks

Ensuring Interoperability and Security of National Strategic Information Assets



More than four decades of innovation by General Dynamics C4 Systems have resulted in trusted information protection for national and international large-scale data and communications operations.

Secure Networking: General Dynamics C4 Systems provides multiple network security solutions to securely share Type 1 data from the network backbone to the warfighter's backpack. High performance throughput, scalable, easy-to-use, compact size, low cost, and programmability are only a few of the benefits of our high-assurance encryptors. Our suite of Type 1, National Security Agency (NSA)-certified network encryptors, including the TACLANE® Family and FASTLANE® ATM/SONET Encryptors, are field-proven and deployed worldwide. They are certified for Top Secret Codeword and below* and are compliant with the High Assurance IP Encryptor Interoperability Specification (HAIPE® IS) and Crypto Modernization initiative.

General Dynamics' TACLANE-GigE was chosen as the secure solution for the Global Information Grid – Bandwidth Expansion (GIG-BE) network because of its true packet performance handling high and low volume traffic.

TVE is a software application that allows users to view and access multiple operating systems, security levels and domains from a single computer. TVE eliminates the need for multiple computers and workstations, resulting in significant IT cost savings as well as decreased costs associated with space, weight and power. The solution improves operational efficiencies as information is more readily available for timely mission-critical decisions.

TACLANE-Micro is smallest, lightest (less than 5 lbs.) encryptor available for both tactical and strategic environments. Designed to withstand shock, vibration, altitude, sand, dust and precipitation, the TACLANE-Micro is ideal for the warfighter's backpack, tactical vehicles (manned or unmanned) or even the desktop.

The FASTLANE ATM/SONET Encryptor provides high-speed, end-to-end, low-latency security for local and wide area ATM networks. FASTLANE is one of the fastest ATM encryptors in the world and is offered in a variety of interfaces to meet user needs. The addition of SONET/SDH path level encryption to FASTLANE provides the additional security of link encryption.

While network encryptors secure data-in-transit, the requirements for protecting Data-at-Rest (DAR) are becoming more prevalent.

Available Today

Expertise in:

- Multi-Level and Cross-Domain Secure Networking
- System Security Engineering

Products:

- CipherNET Certification Authority Workstation
- CipherNET Registrar
- FASTLANE® ATM/SONET Encryptor
- General Dynamics High Assurance Open Scalable Technology Trusted Network Environment (G.H.O.S.T.™^{NE})
- TACLANE® Family of IP Encryptors, including:
 - TACLANE-GigE
 - TACLANE-Micro
- TVE Desktop, incorporating High Assurance Platform (HAP) technology

What's Next

Products:

- ProtecD@R™ Family of Data-at-Rest Encryptors
- TACLANE-VITA – Encryption for Extreme Requirements
- TACLANE-40G – High Speed Encryptor



GENERAL DYNAMICS
C4 Systems

General Dynamics is developing the ProtecD@R™ family of encryptors to secure data-at-rest for for both networked and direct-attached storage, including: ProtecD@R Network (KG-202) Encryptor, providing security for networked data storage; the ProtecD@R Server Encryptor, the complete enterprise solution for DAR security; the ProtecD@R Embedded Encryptor, ruggedized for tactical environments; and the ProtecD@R PC Encryptor that provides DAR security for both desktop and laptop computers.



General Dynamics provides 24/7 customer support and rapid delivery options for mission critical situations.

General Dynamics High Assurance Open Scalable Technologies (G.H.O.S.T.): General Dynamics High Assurance Open Scalable Technology (G.H.O.S.T.) is a suite of high-assurance, trusted, network-encryption technologies that deliver multi-domain and cross-domain solutions, policy-based management technology for managing the GIG enterprise, and comprehensive security architectures with integrated IA solutions for accreditation of high assurance systems.

General Dynamics recognizes the growing need for assured information sharing and offers through the G.H.O.S.T. suite, multi-domain server processors that provide either Multi-Level Security (MLS), Multiple Independent Levels of Security (MILS), or both capabilities as best suited to a particular mission system's needs.

G.H.O.S.T. reduces the need for multiple computers to access different security levels which results in overall cost reductions in both hardware and network support while increasing system-wide mobility.

The G.H.O.S.T. suite comprises:

- **Trusted Network Environment (TNE®)**, a Multi-Level Security solution that provides a high-performance back-end foundation for multi-level intensive applications, and extensive compartmentalization for agile communities of interest. It provides a complete networked solution (MLS clients; single level clients; MLS servers, databases, and services; MLS gateways and controlled interfaces; management infrastructure) that can be easily deployed and accredited for assured information sharing needs.
- **Trusted Embedded Environment (TEE)**, a Multiple Independent Levels of Security solution for embedded applications. This solution is real-time, safety-critical mission capable and is designed for tactical embedded situations such as vehicle-mounted, manpack or wearable packaged environments. It uses embedded virtualization that provides a security framework with a Commercial off-the-Shelf (COTS) hardware-assisted software platform for a High Assurance MILS solution.

Security System Engineering: General Dynamics C4 Systems architects and implements secure complex systems and networks that meet the robust requirements for assured

information sharing while protecting classified and sensitive information. Our IA experience includes securing strategic net-centric and legacy systems for military, homeland security, intelligence, and other government agency use. Our engineering expertise can be applied to help define your system's protection goals and requirements; to design protections factoring in such constraints as performance, risk, operational effectiveness, and maintainability; and to defend your system via cost-effective integration, testing, and accreditation. We use best-in-class products, technologies, and techniques from across the industry to develop a complete assured solution. This includes leveraging the strength of other General Dynamics' businesses to solve issues within the nation's secured data environments.

Cross-Domain: We design and deploy cross-domain systems for handling classified, sensitive, and unclassified information by employing legacy guards, new modular controlled interfaces, trusted labeling, and advanced policy-driven access controls to assure that information is *properly* shared.



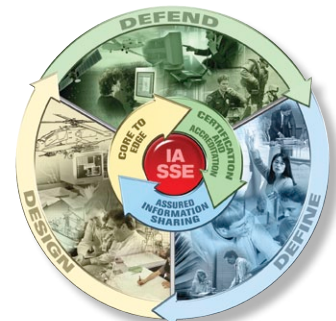
TACLANE®-GigE (KG-175A)



FASTLANE® (KG-75A)



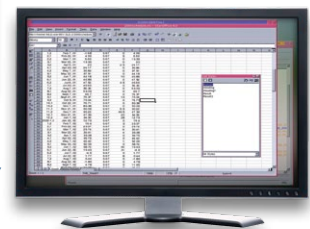
TACLANE-Micro (KG-175D)



Secure System Engineering



TVE Desktop – integrating HAP technology



G.H.O.S.T.™TNE®

GENERAL DYNAMICS
C4 Systems

www.gdc4s.com/InformationAssurance

D-IA-STRATEGIC-7-1109