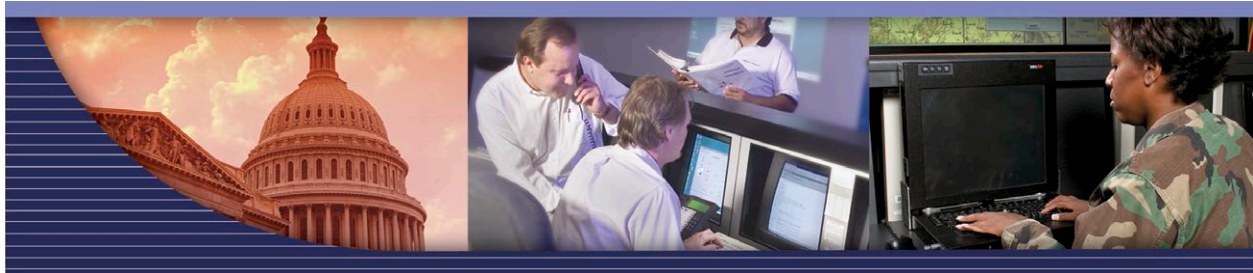


# Securing Mission Operation Planning and Network Operations

*Providing Secure Infrastructures to Plan, Operate, Detect, and Respond Within Strategic and Tactical Systems and Networks*



One of the most difficult challenges within tactical and strategic government systems and networks is planning, monitoring, administering, and maintaining them in a secure and effective manner. General Dynamics C4 Systems has been assisting the U.S. government, supporting secure mission planning for operational tactical platforms and developing new network operations strategies and solutions, and in developing transition strategies and mechanisms from legacy management systems to new net-centric-aware management systems.

**Secured Network Operations:** General Dynamics C4 Systems has been leading the development of integrated and secure network operations infrastructures for various DoD Programs that combine network, IA, and information management. Our expertise covers network operations for fixed ground-based systems (tactical and strategic), mobile tactical systems, and for space-based systems in multi-domain system implementations. These infrastructures allow their administrators to manage the mission system or network securely using a unified cyber operational picture. We are also active in developing standards-based network operations and information assurance architectures for implementation within the DoD's Global Information Grid (GIG).

**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.

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.

Trusted Network Environment (TNE®), a member of the G.H.O.S.T. Suite, is a Multi-Level Security solution that provides a high-performance back-end foundation for multi-level intensive applications, and extensive compartmentalization for agile communities

## Available Today

### Expertise in:

- Certificate Management
- IA Management
- Key Management
- Network Encryption
- Policy Management
- Public Key Enabling for the DoD PKI and tactical PKI systems
- Secured and Integrated NetOps

### Products:

- CipherNET® Certification Authority Workstation
- CipherNET Registrar
- General Dynamics High Assurance Open Scalable Technology Trusted Network Environment (G.H.O.S.T.<sup>TNE</sup>®)
- TACLANE® IP/ATM and FASTLANE® ATM/SONET Family of Encryptors

### Programs:

- Electronic Key Management Systems

## What's Next

### Products:

- CI-13 Legacy ECU Remote Key Manager



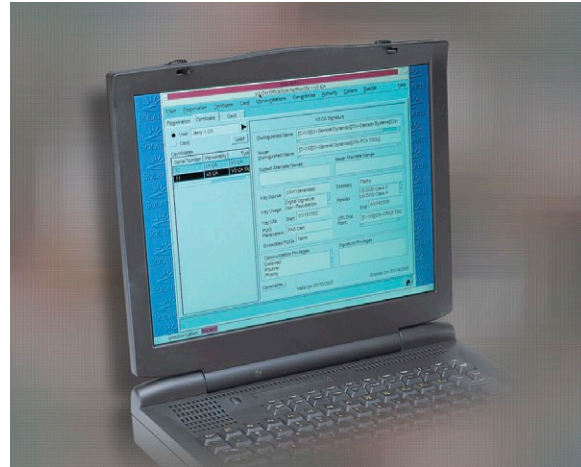
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C4 Systems

of interest. TNE provides a complete networked solution (MLS clients; single level clients; MLS servers, databases, and services; MLS gateways and controlled interfaces; and, management infrastructure) that can be easily deployed and accredited for assured information sharing needs. TNE's benefits the user with increased security and productivity.

**Key and Identity Management Infrastructures:** General Dynamics C4 Systems is a global prime systems developer and integrator for both the key and certificate management infrastructures for the United States, allied, and coalition partners for over four decades. Our System Security Engineers design the architectures, build, test, and integrate the infrastructure, and assist in their operation and maintenance. We have successfully assisted in building the Electronic Key Management Systems (EKMS) for the National Security Agency (NSA) and the DoD's Public Key Infrastructure (PKI). We have developed the CipherNET family of Certificate Authority PKI products to provide robust cryptographic certificate and token management capabilities for use with ISO public key certificate standards. As we look forward, we are focusing on developing more efficient protocols for remote key management, and infrastructures better suited for use in the tactical systems.

**End-Cryptographic Device Key Management:** General Dynamics C4 Systems builds key management mechanisms into cryptographic devices, such as the TACLANE family of high speed encryptors, and into platforms that use cryptographic devices. We provide solutions to perform remote key management to legacy cryptographic devices and build the mechanisms for both physical and remote key management into Crypto-Modernization-compliant devices.

**Dynamic Policy Management:** Policy-enabled networks and systems need autonomous controls and response mechanisms to react to situations and threats within known and well-understood limits. General Dynamics C4 Systems has been investigating and developing tools for a dynamic policy management infrastructure (DPMI). This DPMI can be used to plan, model, deconflict, distribute, and enforce networking policies, server and services access control policies, workstation policies, security policies, communications policies, and more — using a common management interface and infrastructure.



*CipherNET® Certificate Authority Workstation.*



*General Dynamics provides secure infrastructures within strategic and tactical systems and networks.*



*General Dynamics is a leading system integrator of key and certificate management infrastructures.*



*G.H.O.S.T.™TNE®*

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[www.gdc4s.com/InformationAssurance](http://www.gdc4s.com/InformationAssurance)

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D-IA-MISSION-6-1109