Key Management Solutions
Delivering Cryptographic Key to the War Fighter

Overview
General Dynamics works across services, agencies and programs to integrate key management and enterprise security management solutions into system Information Assurance (IA) architectures. Our expertise encompasses:
- Large-scale key management systems
- Unique cryptographic solutions
- Last mile key delivery
- Identity Management across the DoD
- Enterprise Security Management solutions for the Global Information Grid (GIG) and Cyberspace

Tactical Key Management
Secure and reliable delivery of cryptographic key material tied to mission data is a must in today’s tactical environment. General Dynamics has solved this problem with our tactical key management solutions. We recognize that key management cannot stand alone as a stovepipe function and have successfully integrated key management with network mission planning. We’ve packaged it in a system that provides reliable distribution to authenticated users over secure networks, keeping soldiers out of harm’s way.

Local elements are able to simply acquire the exact key and mission data packages they require, and easily load the packages into the components they manage, in minutes instead of weeks. Commanders will have simple and timely access to COMSEC status for mission readiness and compromise assessments in the event of asset loss. A user-friendly intuitive user interface provides ease of use and reduced training costs.

We fully understand the growing demand for secure communications tied to today’s mission planning systems. General Dynamics has developed the tactical key management solutions to be extensible to meet the key management needs of your mission systems. Let General Dynamics be your tactical key management provider.

Single Point Keying
General Dynamics’ single point keying solutions offer incredible capabilities to manage devices that are physically inaccessible to the user. Whether devices are located hundreds of miles away in a remote installation, or only feet away embedded in a vehicle or platform, our single point keying systems will provide a secure mechanism to distribute key in a format that is specific to the end device.

The right key, at the right time, everytime
Key Management Infrastructures at the core — supporting generation, ordering, accounting and distribution

Last Mile Solutions at the edge — supporting secure key delivery and integration with mission planning and management systems
Our solution is extensible to support red fill, black fill or benign fill of remote devices. It supports device management protocols as needed for remote key distribution and management. Our single point keying solutions are applicable to avionics, shipboard or ground-based platforms, and can be installed in buildings to manage devices from a single location. Single point keying will reduce your labor costs, increase the security in your key distribution, and provide a solution to delivering keys to devices that are physically inaccessible. Inquire as to how we may address your specific single point keying needs.

Key Management Infrastructures

A secure and reliable cryptographic key generation and distribution infrastructure forms the core of any communications security strategy. For three decades General Dynamics C4 Systems has played an instrumental role in the development, fielding and operational support of the high assurance key management infrastructures of the U.S. and Allied nations; providing a vital capability to both the strategic and tactical communications needs of our warfighters.

High assurance key ordering, generation and secure distribution to authenticated end users and devices form the heart of these systems. We pair these functions with comprehensive audit and compromise management tools to provide a robust key management capability that extends out to the end users. Device specific on-line or store-and-forward rekey provides a user-friendly capability to update key material as required.

We've provided flexible communications options in our existing fielded systems to meet the varying needs of the end user community. Our next generation system provides a net-centric infrastructure with higher performance and increased security. Enhanced key ordering and distribution protocols are designed to meet the rapidly increasing number of secure end devices without increasing the labor demands of the end user community.

We are a leader in key management solutions for high assurance applications. Our success in the design, development, maintenance and operation of the existing and future key management infrastructures uniquely positions us to design, develop and integrate key management solutions for large-scale and complex mission planning systems. Our pedigree has given us unique technology solutions to link emerging net-centric systems with key management via a low-cost and low-risk approach.

Identity Management Infrastructures

Strong identity management is the cornerstone of any network cyber security strategy. General Dynamics C4 Systems is a leader in the development and fielding of large-scale identity management systems. Our capabilities expand beyond personnel identity management to include non-personnel entities (NPE), or devices. We develop and field large-scale identity management systems for both secret and unclassified environments, and expand to the tactical arena.

Let General Dynamics be your source for identity management solutions as part of your network security strategy.