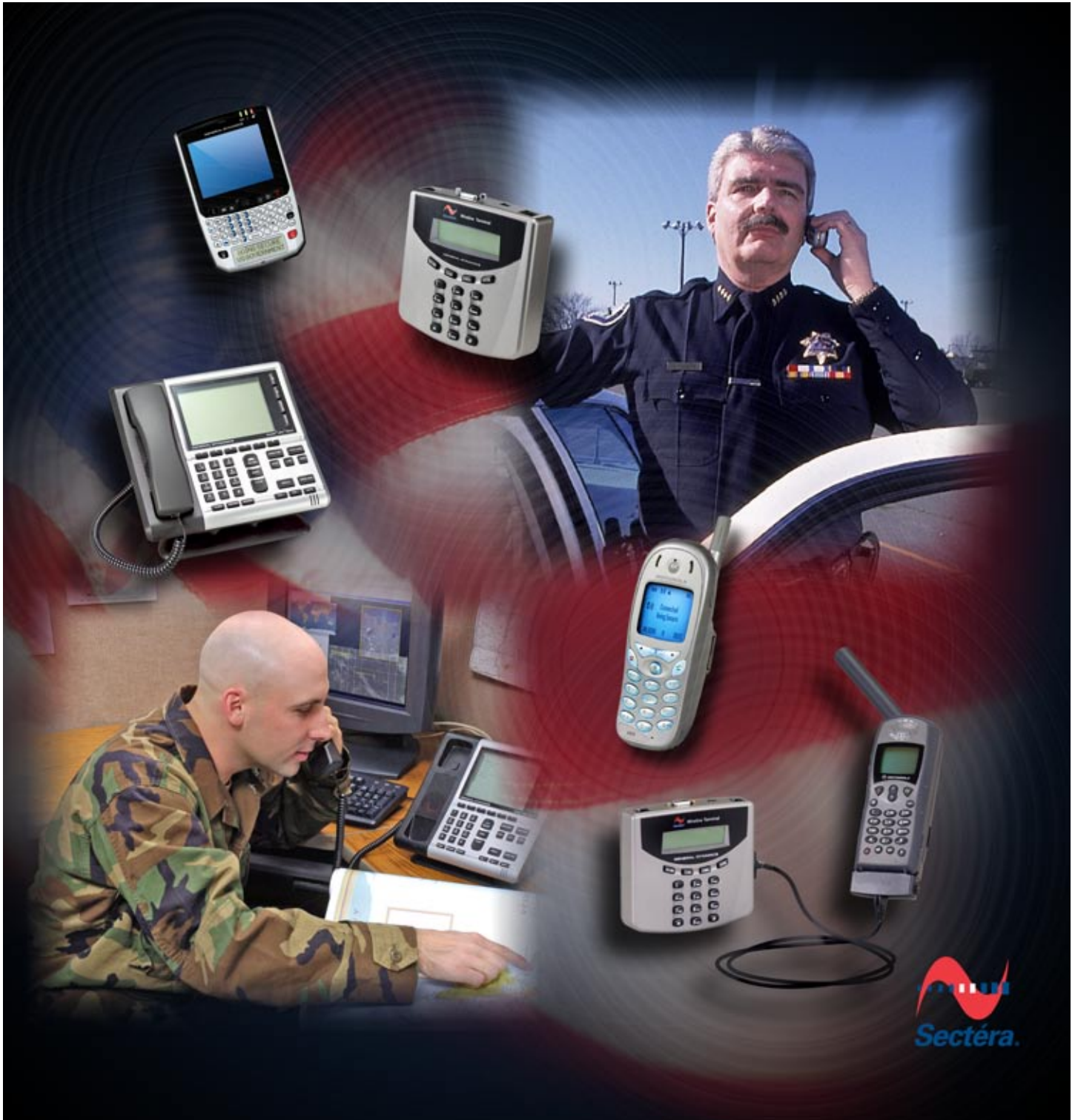


# Sectéra® Secure Interoperable Communications for Homeland Security



**GENERAL DYNAMICS**  
C4 Systems

## Background

General Dynamics C4 Systems' products, systems and technologies have been protecting sensitive military and government information for more than 40 years. Four decades of innovations have resulted in the Sectéra® family of products, offering compact, easy to use, secure communications for government, business and international users. These products demonstrate General Dynamics C4 Systems' commitment to providing the highest levels of information assurance for the people who need it the most.



General Dynamics C4 Systems' leadership in information assurance and security-enabled telecommunications systems began with the STU-III (Secure Telephone Unit) in the 1980s\*. The STU-III phone was a hardware-enabled security solution for voice and data communications that offered a number of "firsts."

In addition to its small desk-set size and a price one-fourth that of the predecessor STU-II, the STU-III was the first secure phone to offer a choice in security levels for voice and data communications. From 1987 to 1999\*, General Dynamics C4 Systems placed more than 240,000 STU-III phones in offices and conference rooms from the White House, to the Pentagon, to defense contractors, to field use by the armed services around the world.

By the mid-1990s, four distinct levels of security existed for the specific user communities. The highest level of security, Type 1, was required by the U.S. Government for protection of classified information including the Top

Secret level. Type 2 security was intended for U.S. Government SBU (Sensitive But Unclassified) information. Type 3 security was targeted for all other U.S. domestic security needs, and Type 4 defined the class of exportable secure products for international customers. These four user groups were able to communicate securely within their specific community, but were not able to communicate securely with other user groups. For example, a Type 1 user was not able to have a secure conversation with a Type 3 or 4 user because secure products did not interoperate.

As business and geopolitical conditions changed, the U.S. Government identified a growing need for different security levels to inter-communicate. By collaborating with industry and international partners, the SCIP (Secure Communications Interoperability Protocol) standard was developed to provide a signaling scheme that allows users to communicate securely with other compatible products.

## Sectéra Portfolio of Secure Communications Products

As wireless data and voice communications surged in popularity and preference, the Sectéra interoperable security architecture for high-assurance, software-enabled solutions was introduced in 2000\*, raising the information security bar. Products incorporating this architecture provide reusable, software programmable and upgradeable flexibility that was not previously available. Sectéra products use the National Security Agency's (NSA) SCIP signaling standard, providing interoperable secure communications across various domains.

In 2002, General Dynamics C4 Systems introduced the Sectéra Secure Wireless Phone for GSM (Global System for Mobile Communications) and the Sectéra Wireline Terminal. Sectéra Wire-

less and Wireline products use Type 1 encryption algorithms — available to authorized U.S. Government personnel — and have been certified by the NSA to protect classified voice and data communications up to and including the Top Secret level. Over 60,000 Sectéra Type 1 Wireless and Wireline products have been purchased by the DOD and federal agencies that communicate classified information. Unlike older secure communications technology, Sectéra Wireless and Wireline products are easy to use and offer high quality voice communications for both regular and secure calls.

Sectéra Wireless phones are the first to use a proprietary security module that "clips-in" to an existing commercial phone, the Motorola Timeport™ tri-band GSM phone. Secure calls are as easy to make as regular cell phone calls, and global communications capability is achieved with the Timeport phone, which operates on GSM, a leading wireless telecommunications technology. There are over 200 countries worldwide serviced by GSM networks. GSM service providers in the U.S. include Cingular and T-Mobile.

Sectéra Wireline terminals are compact, lightweight devices that interface with a standard analog desktop phone, a digital phone along with a digital adapter, a fax machine or a personal computer. The small footprint allows the terminal to be used in a stationary environment with minimal space, or as a portable device easily transported to remote or temporary locations. The Sectéra Wireline Terminal with Black Digital Interface (BDI) is available to provide secure SCIP



Sectéra Secure Wireless Phone for GSM



Sectéra Wireline Terminal



General Dynamics includes the AES encryption algorithm in Sectéra Type 1 Wireless and Wireline products. This allows Sectéra Type 1 products to interoperate with TalkSECURE products, using the AES encryption algorithm for Sensitive But Unclassified communications. This interoperability is the first of its kind, enabling federal, state and local users to share information securely.

interoperability with portable satellite telephones for the Iridium®, Inmarsat®, Globalstar and Thuraya networks.

Eliminating the need for multiple desktop phones, the Sectéra vIPer™ Phone is designed specifically to secure classified communications up to and including Top Secret for Voice over IP (VoIP) networks. The vIPer phone includes the features of a commercial VoIP phone plus it can be used for classified and nonsecure calls.

The Sectéra Edge™ is currently in development for the NSA's Secure Mobile Environment Portable Electronic Device (SME PED) program. The Sectéra Edge (available summer 2007) converges secure wireless voice and data by combining the functionality of a wireless phone



BDI terminal with Iridium phone



Sectéra vIPer Phone

and PDA — all in one easy-to-use handheld device. Not only can the Sectéra Edge be used to make secure phone calls, it can also be used for secure access to classified networks, email, a personal organizer and web browsing via high-speed quad-band GSM or CDMA cellular networks.

TalkSECURE™ Wireless and Wireline products use the same architecture as Sectéra Type 1 products, but they meet the Type 2, 3, and 4 security requirements with a single mode, which uses the Advanced Encryption Standard (AES) algorithm to satisfy SBU, domestic and exportable applications.

With Sectéra Wireless and Wireline products, users can make interoperable Type 1 or AES secure calls as well as regular calls, eliminating the need for government users, law enforcement officials and first-responders to carry extra equipment for secure communications.

### Summary

Today, global events have created an immediate and unparalleled demand for secure, interoperable

voice and data communications. The Sectéra portfolio of wireless and wireline products are unique in their ability to protect information vital to our homeland security, providing the bridge for interoperable secure communications between federal, state and local government.

General Dynamics C4 Systems is a leader in technologies, products and systems for information assurance, communication and situational awareness for defense and industrial customers in the U.S. and abroad.

The Sectéra portfolio of Wireless and Wireline products are available on the NSA IDIQ contract. TalkSECURE Wireless and Wireline products are also available on the GSA contract. For more information, please visit [www.gdc4s.com/secureproducts](http://www.gdc4s.com/secureproducts).

\* General Dynamics C4 Systems (formerly Motorola Integrated Information Systems Group) was acquired from Motorola by General Dynamics in September 2001.



***We Bring You What's Next***

**GENERAL DYNAMICS**  
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