REDCOM SECURE VOICE GATEWAY

Type-1 NSA ACC-compliant secure voice conferencing
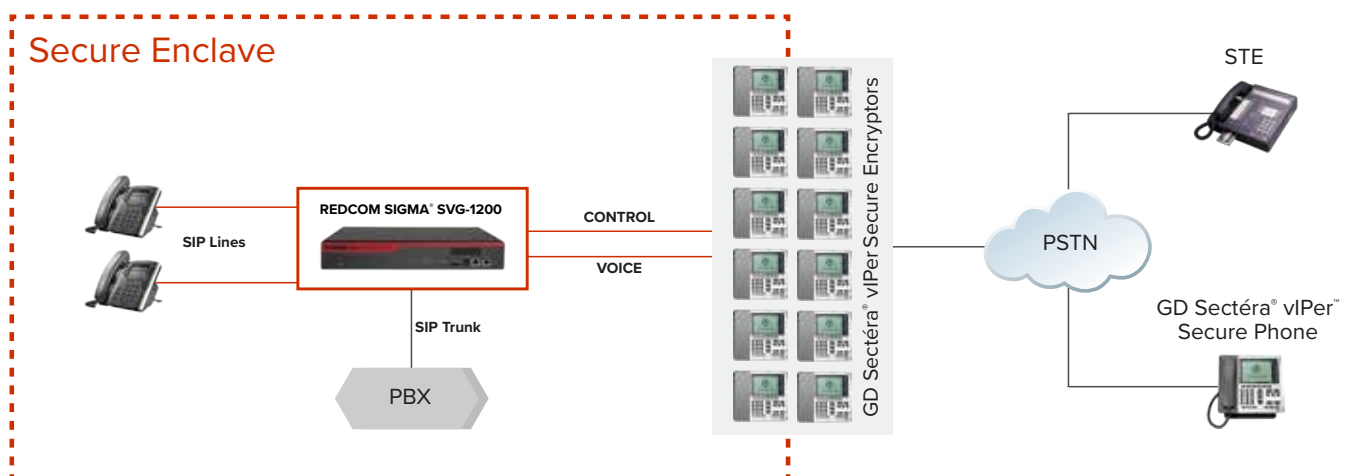
REDCOM Secure Voice Gateway key benefits:

- **Improves the cybersecurity posture of voice conferencing**
- **Enables easy-to-use multi-party ACC-compliant Type 1 communications**
- **Black side of the network can be anywhere in the world, as long as the endpoints are Type 1 capable**
- **Resolves "low audio" issues with legacy systems**
- **Crystal clear voice quality, on both the red and black side of the network**

The REDCOM Secure Voice Gateway (SVG) is a modern multi-party secure voice conferencing solution developed in partnership with General Dynamics Mission Systems. REDCOM provides the call control and conferencing capabilities, while the General Dynamics Sectéra® vIPer™ phones provide the ACC-compliant Type 1 encryption.

A REDCOM SVG system consists of one or more REDCOM Sigma® SVG-1200 units and a series of standard production General Dynamics Sectéra vIPer phones. Each REDCOM SVG-1200 can interface with up to 12 vIPer phones, which act as voice encryptors for TDM or VoIP voice networks. The encryptors allow any line, trunk, or conference port to conduct secure voice communications with any SCIP-capable device. If more than 12 secure talk paths are required, multiple SVG-1200 units may be networked together.

Numerous legacy REDCOM SVG systems are already deployed within multiple Federal agencies and proven at the highest levels of government. The new SVG-1200 delivers the same reliability and functionality, but in a smaller footprint with an easier-to-use web-based admin platform.

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Special SVG features

- Auto Re-Key – conducts periodic calls to the National Re-Key facility for your vIPer phones
- Auto Un-Lock – maintains an unlock state for your vIPer phones
- MLS (Multi Level Security) – provides traffic separation to contain multi-level security in one system
- RACCG (REDCOM Automatic Conference Code Generator) – self provisioning periodic conference code generator (Daily, Weekly, Monthly)
- MFA (Multi-Factor Authentication) – provides calling party's information (both caller ID and DAO code) to the secure enclave

Powered by REDCOM's proven Sigma® software

REDCOM Sigma® is an intuitive software-based C2 platform built specifically for the government and military. Sigma powers everything inside the SVG-1200, including the call control, conferencing, and transcoding.

- Integrated voice, video, chat, conferencing, transcoding, and radio interoperability
- Standards-based, network-agnostic, and interoperable with any SIP-capable endpoint
- Includes the latest forms of encryption, including Suite B, TLS/SRTP, IPsec, and FIPS 140-2 validation
- Listed on the DoDIN Approved Products List (APL)

Integrated conferencing engine

Sigma SVG-1200 has a built-in conferencing engine for quick and reliable collaboration between red and black networks. Everything is configured through the intuitive web interface, with dynamic, real-time visual representation and management of both audio and video conferences and members across several sites simultaneously. Conferencing features include:

- Meet-me and preset conferencing with announcement and password options
- Visual conference member information, such as priority, participation levels, and security status
- Conference access control by caller ID information or clearance level
- Flexible member controls including mute, exclude, drop, and restore
- Security level knockdown: plays an optional announcement when an attendee with a lower clearance level enters the conference

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An upgrade path for users of legacy equipment

In early 2019, the NSA released new Advanced Cryptographic Capabilities (ACC) requirements that effectively ended support for the General Dynamics Sectéra® Wireline Terminal (SWT) and the REDCOM SWT-R board for the HDX. This created a challenge for agencies that require access to red/black networks using a Type 1 gateway device or a Type 1 conferencing solution.

Agencies that have previously relied on a REDCOM HDX system with GD SWT encryptors or L-3 STE-R encryptors will need to upgrade their equipment and infrastruture by moving to REDCOM's new Sigma SVG-1200 system and vIPer encryptors. This upgrade path will enable agencies to maintain a future-proof Type 1 secure, multi-party voice communication solution.

REDCOM Sigma® SVG-1200 Hardware Specifications

PHYSICAL

Dimensions (WxDxH)	16.8 x 7.4 x 2.6 in / 24.6 x 18.8 x 6.6 cm
Weight	5.5 lbs. / 2.5 kg
Power Input	10–33 VDC, 60W peak power draw

ENVIRONMENTAL

Temperature (operational)	-20 to 70 °C (MIL-STD-810H, Methods 502.7 and 501.7, Procedure II)
Temperature (storage)	-34 to 70 °C (MIL-STD-810H, Methods 502.7 and 501.7, Procedure I)
Emissions	FCC Part 15 Sub-part B Class A compliant (validated)

PORTS

vIPer Ports	12
USB 2.0	2
Ethernet	2 x 10/100/1000
Video	1 x DisplayPort™ dual mode (DP++)
Analog	12x DB15
LEDs	Power, Disk Activity, 12x Port Status

REDCOM Sigma SVG-1200 front view

REDCOM Sigma SVG-1200 back view

How to purchase

To purchase a REDCOM Secure Voice Gateway, start by speaking with a REDCOM secure voice expert by calling 585-924-6500 or by sending an email to sales@redcom.com. To purchase GD Sectéra vIPer devices, please contact General Dynamics Mission Systems at infosec@gd-ms.com.

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