**The Mission:** Provide multi-channel encryption between red enclaves and telephone-based SCIP (Secure Communication Interoperability Protocol) networks.

**The Answer:** Ectocryp® Black. A SCIP compliant device, offering improved interoperability, increased call capability, and field programmability – all in a single purpose-built gateway device that provides high capacity, is relatively transportable, and easy to install, operate and maintain.

**Responding to the Requirement:** EADS has developed the Ectocryp® suite of products to meet the growing information security demand across military, government and commercial sectors. Ectocryp® Black enables SCIP users to communicate directly with red enclaves and their existing infrastructure, which avoids the cost of providing numerous workstations with SCIP devices.
**Technical Specifications**

**Management Support**
- Local Management via 100 Base-T connectivity
- Remote Management In-Band
- Windows hosted custom management application
- SNMP v3 compliant management capability

**Protocol Support**
- SCIP-230
- NATO SCIP-232 (planned)
- QSIG
- NI2

**Cryptography Support**
- Full compliance to released crypto suites
- Capable of protecting TOP SECRET including national caveats
- Other (e.g. NATO/Releasable) cryptographic suites available on request
- Designed to support EKMS 308 and 319

**Capacity**
- Up to 120 simultaneous secure voice calls in E1 configuration or 92 in T1

**Physical Interfaces**
- Management - 100-Base-T interface (RJ45 Connectors front and rear)
- RED – 4 x E1 or T1
- BLACK – 4 x E1 or T1
- Power - AC input 85 to 264v (47 to 63Hz)

**Upgradeability**
- Fully in-Field reprogrammable - from protocol handling to cryptographic algorithm suites
- Fully upgradeable to VoIP/SIP (future feature)
- Conferencing (future feature)

**Certification Features**
- Designed for NATO SDIP-27 A (formerly AMG 720B) Tempest accreditation
- UL approved

**Physical Specifications**
- 6U 19" rack mountable (10.5"H x 19"W x 20"D)
- Weight – 66 lbs
- Operating temperature 32° to 104°F – Humidity <90% non-condensing
- Storage temperature -4° to 140°F – Humidity <90% non-condensing

**Interoperability**
- Designed to be fully interoperable with SCIP devices

**Security Features**
- Crypto Ignition Key (CIK) dramatically reduces cryptographic distribution, handling and accounting
- Tamper resistant
- Full erase functionality
- Delivered as UNCLASSIFIED, accountable material

**Future-proof features:**
- Evolutionary path: VoSIP (Voice over Secure Internet Protocol) also possible
- Increased capacity: 92 channels in T1 configuration for larger scale operations
- Compact footprint: Provides potential for transportable usage
- Ectocryp® Black gateway enables SCIP calls from existing devices (Sectera, QSEC2700, Omni, etc) to transparently communicate with existing red enclaves where non-SCIP devices are used
- Classification up to TOP SECRET level will be supported

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**Security Solutions from EADS North America**

EADS North America is the North American operation of EADS, a global leader in aerospace, defense and related services that offers a broad array of information assurance and mission-critical communications products, with a strong heritage of integrating large-scale and previously disparate systems in the most complex environments. The capabilities of EADS North America include Programmable High-Grade IP cryptography and key management systems; standards-based call center applications; emergency notification technology; open-standards P25 land mobile radio networks; and cybersecurity network simulators.

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**Ectocryp® Black’s Advantages Include:**
- Field Programmable Gate Array design - flexibility with programmable architectures
- Algorithm agility and device-upgradable via remote management
- Remote management of the encryption device via the network

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**Ectocryp® Black is currently undergoing NSA evaluation**