COMMAND & CONTROL CRIPTOPER SCAP PROCIF for IRIDIUM

General Description

CRIPTOPER SCAP PROCIF for IRIDIUM is a portable secure voice communication terminal via IRIDIUM satellite network and based on a rugged PDA. The classification level is up to SP CONFIDENCIAL (equivalent to NATO CONFIDENTIAL). The terminal runs CRIPTOPER SCAP software (SCIP Crypto Application) and includes a PCMCIA crypto hardware module (PROCIF card) with anti-tamper measures that implements SCIP protocol, audio management and stores the crypto material. The vocoder used is MELPe. The community of interest formed by a group of terminals is managed by the CRIPTOPER CMAP PROCIF Management Centre running CMAP (Crypto Management APplication) software that also includes a PROCIF card.

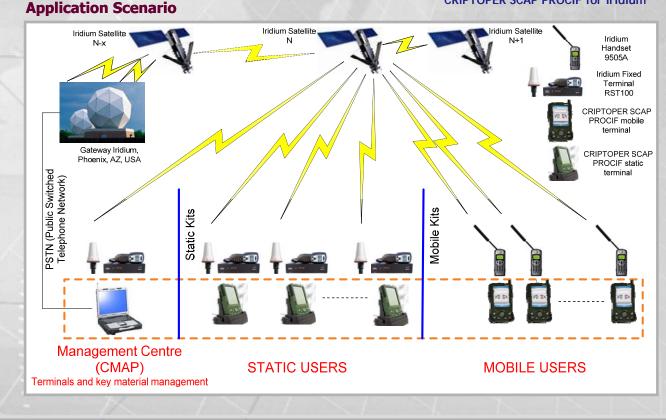
Key Benefits

- □ SCIP Protocol compatible
- Fast cryptographic resynchronization when the signal is lost
- Iridium narrowband channel optimization
- Low latency (about 1 second delay)
- Satellite handover without hanging the call
- Remote crypto management operations
- Contact list
- Easy to use interface
- Wind noise reduction microphone





CRIPTOPER SCAP PROCIF for Iridium



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Security Features

- **SCIP** protocol
- Approved to transmit up to SP CONFIDENCIAL (NATO CONFIDENTIAL)
- All ports are disabled except the serial port (communication with the Iridium terminal)
- The PDA can only run CRIPTOPER SCAP application (Kiosk mode)
- Modified PDA boot to prevent from PDA tampering
- Emergency zeroization (erasure) of the crypto material by the user
- **Remote zeroization from the Management Centre**
- Automatic zeroization when the PROCIF card is tampered (Crypto material + Firmware + Software)
- **PKI (Public Key Infrastructure)**
- Unique encryption key generated automatically between terminals for each call
- Remote certificates upgrade
- Remote CRL (Certificate Revocation List) distribution
- Suite B Algorithms
- X.509 v3 certificates

PROCIF Card Specifications

- Crypto Hardware Module
- Design based on FIPS 140-2 Level 4
- Anti-tamper measures
- **PCMCIA** Type II form
- Implements SCIP Protocol
- MELPe Vocoder (2.4 kbps)
- True Random Number Generator (hardware)
- Firmware and Software upgradeable
- 2.5 mm Ø – 4 poles audio connector
- Speaker impedance: 32 Ω
- □ Weight: 60 g
- Hosted by the PDA and controlled by the CRIPTOPER SCAP Software running on the PDA

Technical Specifications

- Dimensions: 150mm x 105mm x 33mm (including the audio connector of the PROCIF card)
- Weight: 645 g (PDA + PROCIF card + headset)
- □ Temperature Operating Range: -20 °C to 50 °C
- Humidity Operating Range: 0% 95%
- Power: 10-30 V DC
- Battery: Lithium-Ion (3,6 V – 3,9 Ah rechargeable)
- Battery life Standby: 200 hours (2 batteries x 100) hours / battery)
- Battery life Operating: 11 hours (2 batteries x 5,5 hours / battery)
- **Compatible with Iridium 9505A handset and Beam RST100** fixed terminal.

PDA Specifications

- Microsoft Windows Mobile.
- Display 4" (480x640) sunlight readable transflective **TFT LCD**
- Resistive Touch Screen (works with gloves, stylus...) Magnesium case.
- Internal backup battery to sustain data while swapping primary battery (100 mAh Lithium-Polymer)

Product Configuration

- Two different kits:
 - Mobile kit (P/N 103EQ100010)
 - Static kit (P/N 103EQ100000)
- Accessories:
 - **Transit case**
 - > Carrying pouch (only Mobile kit)
 - Spare battery (only Mobile kit) > PDA cradles (only Static kit)

 - Serial cable (connection with Iridium terminal) Battery charger (AC adaptor)
 - Battery charger (Vehicle adaptor) >
 - Headset with wind noise reduction >
 - Stylus pen >
 - Iridium terminals not included in the kits >



PROCIF card (Crypto hardware module)

Technical Standards

- □ EMI/EMC MIL-STD-461E & MIL-STD-461F
- Environmental tests - MIL-STD-810F:
 - Method 501.4 Procedures I & II (Temperature)
 - Method 502.4 Procedures I & II (Temperature)
 - Method 514.5 Procedure I Cat. 20 (Vibration)
 - Method 516.5 Procedures I & IV (Shock)
 - Method 507.4 (A/A/S) (Humidity)
 - Method 506.4 Procedure III (Rain)
- □ IEC 60529 IP 65
- TEMPEST SDIP-27 Level A compliant



CRIPTOPER SCAP PROCIF for Iridium Mobile Kit

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