

General Description

A Management Centre for the CRIPTOPER SCAP PROCIF terminals (portable secure voice communication terminals based on a rugged PDA via Iridium satellite network). The classification level is up to SP CONFIDENCIAL (equivalent to NATO CONFIDENTIAL). The Management Centre runs CMAP software (Crypto Management APplication). This application allows the management of the CRIPTOPER SCAP PROCIF terminals and their key material. All the management operations can be done remotely except the register of a new terminal that must be done locally. The Management Centre includes a crypto hardware module (PROCIF card for the CMAP) similar to the one of the CRIPTOPER SCAP PROCIF, but with a different software and without audio interface.

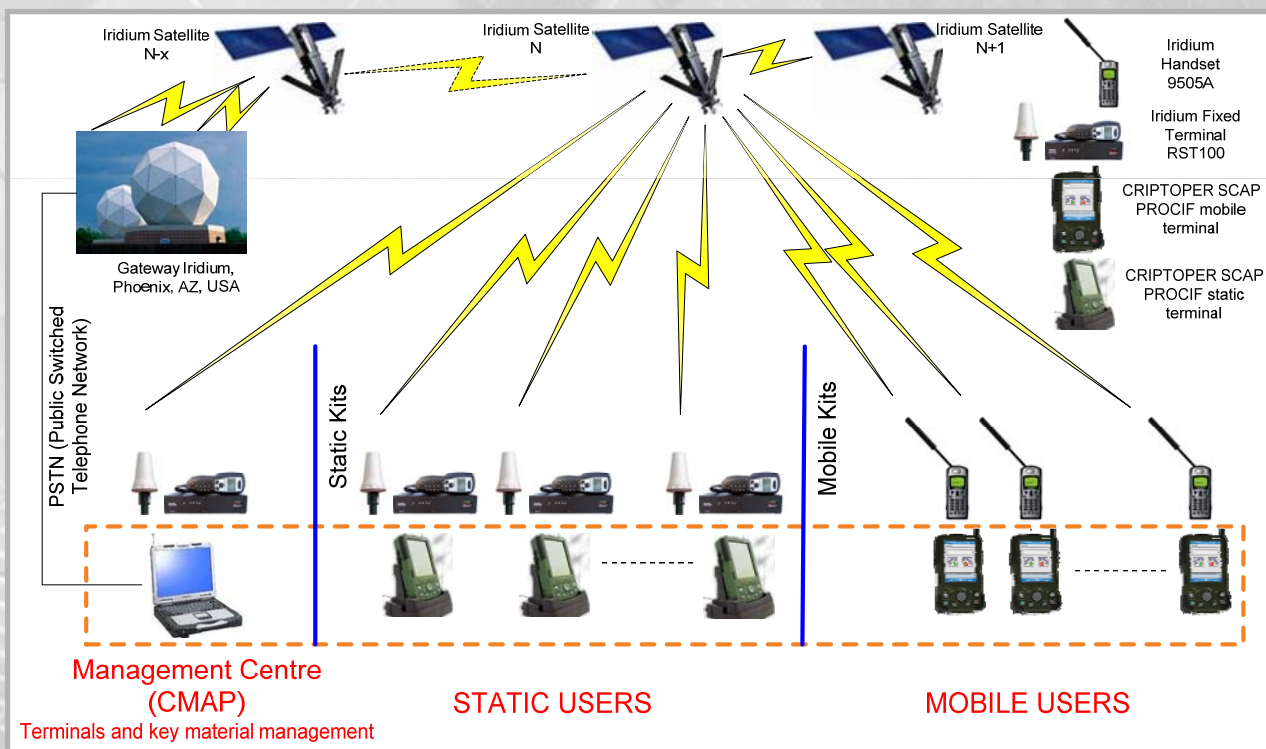
Key Benefits

- SCIP Protocol compatible
- The CMAP application runs on a rugged laptop
- Communication with the terminals: PSTN (Public Switched Telephone Network) in addition to the Iridium satellite network
- Remote certificates update before they expire
- Remote terminals zeroization in case of security compromise
- Backup and restore operations
- Reset operation that creates a new CA (Certificate Authority)
- Spread of CRLs (Certificate Revocation List)
- Log management (Audit functions)
- Role separation



CRIPTOPER CMAP PROCIF for Iridium

Application Scenario



Security Features

- SCIP protocol
- Approved to transmit up to SP CONFIDENCIAL (equivalent to NATO CONFIDENCIAL)
- Automatic zeroization (Crypto material + Card Firmware & Software) when the PROCIF card or the CMAP software is tampered
- Strong security policies applied to the Operating System
- Role separation
- Remote terminals zeroization
- PKI (Public Key Infrastructure)
- Unique encryption key generated automatically between the CMAP and the terminal for each call
- Remote upgrade of the terminals' certificates
- Remote CRL (Certificate Revocation List) distribution
- Suite B Algorithms
- X.509 v3 certificates



PROCIF card for the CMAP

Create Certificate

CREATE CERTIFICATE

CA:

User Name:

Company:

Country:

Activation Date:

Expiration Date:

CMAP Application screen capture

Technical Specifications

- Dimensions: 302mm x 69mm x 292mm
- Weight: 3.86 Kg (Laptop + PROCIF card)
- Temperature Operating Range: 5 °C to 35 °C
- Humidity Operating Range: 30% - 80%
- Power Consumption: Approx. 50 W
- AC Adaptor:
 - > Input: 100 V to 240 V AC, 50 / 60 Hz
 - > Output: 15.6 V DC, 5.0 A
- Battery: Lithium-Ion (11.1 V – 7.8 Ah rechargeable)
- Battery life – Operating time: Approx. 7 hours
- Compatible with Iridium 9505A handset and Beam RST100 fixed terminal.

PROCIF Card Specifications

- Crypto Hardware Module
- Design based on FIPS 140-2 Level 4
- Anti-tamper measures
- PCMCIA Type II form
- Implements SCIP Protocol
- True Random Number Generator (hardware)
- Firmware and Software upgradeable
- Weight: 45 g
- Hosted by the rugged laptop and controlled by the CRIPTOPER CMAP Software running on the laptop

Rugged Laptop Specifications

- Panasonic Toughbook CF-30 (Microsoft Windows XP)
- Display 13.3" (1024x768) daylight readable LCD
- Full magnesium alloy case with handle
- Sealed all-weather design
- Shock-mounted hard drive
- Rain, spill, dust and vibration resistant

Technical Standards

- MIL-STD-810F Method 506.4 Procedure III (Drip)
- ANSI/IEC 60529 IP-X4 (Drip)
- MIL-STD-810F Method 510.4 Procedure I (Dust)
- ANSI/IEC 60529 IP-5X (Dust)
- MIL-STD-810F Method 516.5 (Gravity-drop)
- MIL-STD-810F Method 514.5C-24 (Vibration)
- TEMPEST SDIP-27 Level A compliant



CRIPTOPER SCAP PROCIF for Iridium
(Terminal managed by the CMAP)