



Crypto Management System — Telephone, Fax, Radio



**Windows-based simplicity
with hardware-based security vault
providing multilayer
key management protection.**

TCC's Crypto Management System (CMS) sets configuration and parameter information, and generates and distributes all keying material used by the CSD 3324 SE telephone/fax encryption system, and DSP 9000 and HSE 6000 secure radio encryption family. One CMS can support an unlimited number of encryption devices.

Secure Communications Network

A single TCC Crypto Management System (CMS) can support an unlimited number of CSD 3324 SE secure phone/fax systems, DSP 9000 radio encryption systems, and HSE 6000 headset radio and telephone encryptors. Networks consisting of thousands of units can be configured with all of the configuration data, interface parameters and cryptographic keys by entering the information once and then loading it into a TCC SmartModule high-capacity secure transport device.

Key Generation/Distribution

The CMS supports random generation of five key types: Security Vault Key Encrypting Key (SKEK), Master Key Encrypting Key (MKEK), Local Keys, Network Key and System Key.

Secret keys are generated by the CMS hardware-based security vault. The CMS also supports keyboard entry of MKEKs, Local Keys and Network Keys.

MKEKs protect the keys in the SmartModule so that distribution of the SmartModule to the frontlines is secure.



Crypto Management System with security vault generates and stores cryptographic keys.

SKEKs encrypt the key database for secure data archiving as well as secure electronic key distribution. Keys generated by the CMS' security vault can be securely archived into an AES 256-bit encrypted key file. Secured key files can be distributed electronically or maintained on optical storage devices such as DVDs or on USB thumb drives.

CMS System

The CMS is a Windows® 7-based system running TCC's CMS software with TCC AES 256-bit tamper proof 1 RU security vault. Functional selections are made using pull-down menus. Help menus are available to guide the user through the

Benefits

- Hardware-based security vault with Windows-based simplicity
- One system centrally configures devices and generates and stores keys
- Supports an unlimited number of TCC's CSD 3324 SE, DSP 9000 and HSE 6000 encryption systems
- Multilayer secret key generation, storage and distribution protection

options. Users can select from a fully configured system with software, rack mounted 1 RU industrial computer and security vault, or select the software and security vault to be used with their in-house computer.

Technical Specifications

Products Supported

CSD 3324 SE
DSP 9000 family — base, handset and implant board
HSE 6000

Crypto Management System Configuration Options

Self-install: CMS Software and Security Vault

- CMS Windows 7 application
- AES Security Vault
- SmartModule 64K and 2K-W
- Line cord, interface cables

Complete CMS System

- 1 RU rack mounted industrial computer
- CMS application pre-installed
- AES Security Vault preconfigured
- SmartModule 64K and 2K-W
- Line cord, interface cables

Computer Specifications

Features

Long life ATX motherboard Intel socket 1155 (core i3)
4 GB total RAM
2 x 500 GB hard drives (RAID-1)
Windows 7 Ultimate 32-bit

Power

Auto ranging: 100-240 VAC 50/60 Hz 400W supply

Size

1U rack mount chassis 23.8" depth
44 lbs (20 kg) fully configured

Security Vault Specifications

Power

Auto ranging: 100-240 VAC 50/60 Hz 20W typical

Size

1U rack mount chassis 10.5" depth
Weight: 15 lb (6.8 kg)

System Environmental

Temperature

Operating Temperature 10° C to 45° C
Non-operating Temperature -25° C to 70° C

Humidity

Operating Up to 90% at 40° C non condensing
Non-operating 95% at 25° C to 90% at 40° C non condensing



CSD 3324 SE telephone/fax encryption system secures communications in harsh environments with excellent voice quality. It is also compatible with TCC's DSP 9000 base station secure radio encryptor.



HSE 6000 headset radio encryptor and DSP 9000 military radio encryption family interoperate and work with most radio makes and models.

For more than 50 years, Technical Communications Corporation has specialized in superior-grade secure communications systems and customized solutions, supporting our CipherONE® best-in-class criteria, to protect highly sensitive voice, data and video transmitted over a wide range of networks. Government entities, military agencies and corporate enterprises in 115 countries rely on TCC's proven security to protect their communications.

