THALES

> TCE 671 Security Management Center

Main features

- Management of IP crypto devices
- Simple key handling
- Cost effective management

The TCE 671 is the central component for management of the IP crypto devices in the Cryptel®-IP system.

Online Security Management Centre

The TCE 671 is an online Security Management Centre built for management of a network protected by TCE 621s (TCE 621, TCE 621/B and TCE 621/C).

The TCE 671 has a simple and intuitive graphical user interface, which reduces the need for training of operators. The application evolves with the user as operators may customise the user interface to their personal needs and to fre-quently performed tasks. The application is well proven during years of operational use and evolution. The TCE 671 reduces the need for manpower and total cost of ownership.

Selected as NATO IP Crypto Equipment

The TCE 621 high-grade IP crypto equipment securely interconnects single end systems or local area networks (LANs) to a secure network. The TCE 621 is selected as NATO IP Crypto Equipment (NICE), and is in widespread use throughout NATO and associated nations.

A protected network may operate with one or two on-line management centres. The system may also operate without a management centre.

Main services

- Key management with automatic generation and distribution of traffic keys
- Management of security associations and access control groups
- Configuration management and network monitoring
- Security monitoring (alarms and auditable events)
- Support for all features in the TCE 621 including:
  - Secure multicast
  - Redundancy
  - UDP encapsulation for NAT support
- Load balancing features
- Macro functions
- Replication to other TCE 671s
- Support for operation from a remote client
- Remote SW-loading of TCE 621/B and TCE 621/C
- Interface to national key management systems

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TCE 671
TECHNICAL DATA

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Main components

- COTS server (TCE 671 CP)
- One TCE 621 for key processing and fill device support (TCE 621 KP)
- One (or two) TCE 621/B for protection of all management traffic
- Delivered installed and pre-configured

The TCE 671 CP is characterized by the following

- Industry standard Pentium based server
- Linux operating system
- MySQL database
- Graphical User Interface (GUI)
- Magneto-optical drive for storage of audits
- Tape drive for backup
- Laser printer
- Flat screen monitor
- Uninterrupted power supply (UPS)
- Delivered as a turnkey COTS based system

Capacities

- Up to 2000 controlled TCE 621s
- Unlimited number of end systems
- Keys and access requests generated and delivered on-the-fly*

Approval

- TCE 671 is part of the Cryptel®-IP system approved for all classification levels including NATO Cosmic Top Secret.

Other features

- Designed to manage a large and complex network of TCE 621s
- Intuitive user interface
- No day-to-day user interaction necessary, fully automatic network operation
  - Key distribution
  - Access control
  - Collection and storage of audit information
  - Storage of alarms
- Distribution of keys and access control information on demand or on operator command
- User customisation of user interface
- Individual operator access control
- Printing of all relevant information
- Wide range of monitoring functions
  - Network monitoring
  - Security monitoring
  - Traffic volume monitoring
- Auditable events are stored on a permanent non-volatile medium
- Emergency erase function available
- Clear text keys are handled by the tempest protected TCE 621 KP
  - Tempest facilities not required

Environment

- Indoor office environment
- Classification level will be the same as the classification of the protected network

> *Crypto units will ask for traffic keys in advance, so they will be self-contained with keys for up to two crypto periods.

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