

SECURITY MANAGEMENT CENTRE FOR THE CRYPTEL®-IP SYSTEM

The TCE 671 Security Management Centre – SMC is specially designed for the efficient centralized management of large scale IP based networks secured by the Cryptel-IP encryption devices - TCE 621.

The TCE 671 SMC is a comprehensive application used for management of a large number of encryption devices.

The main task of the TCE 671 SMC is to perform electronic distribution of session keys for protection of the user traffic.

Other main features of the TCE 671 SMC are scalable and flexible management of security associations and access control records, such as which addresses are allowed to communicate with each other, configuration management and security monitoring. An example is the collecting of alarms and auditable events from the TCE 621 encryption devices. In addition to management of the TCE 621 encryption devices, the TCE 671 SMC is also a useful tool for monitoring, detecting and doing diagnosis on events in the network. In this way the TCE 671 SMC becomes a useful part of the security management of the network.

NETWORK SECURITY

TCE 671 SMC Security Management Centre



TCE 671 SMC

Security Management Centre

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 online management centres. The system may also operate without a management centre.

MAIN SERVICES

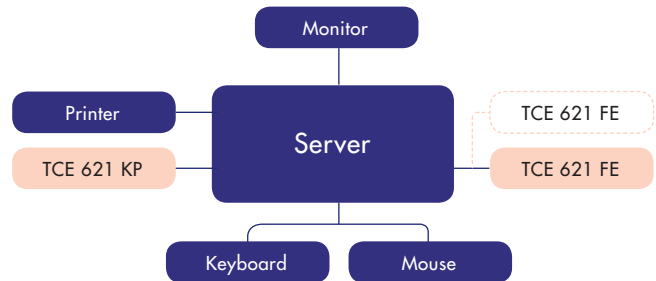
- Key management with automatic generation and distribution of traffic keys
- Management of security associations and access control groups
- Configuration management and network monitoring
- Security monitoring (alarms and auditable events)
- Support for all features in the TCE 621 including:
 - Secure multicast
 - Redundancy
 - UDP encapsulation for NAT support
- Load balancing features
- Diagnose and 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 network monitoring systems.
- Interface to national key management systems

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 preconfigured

CAPACITIES

- Up to 6000 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 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
 - Peer-to-peer discovery server
- 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.

PRODUCT VARIANTS

- TCE 671
Manages all Einride-based TCE 621s
- TCE 671 AES
Manages all AES-based TCE 621s, including TCE 621 Black