



NATO has selected Cryptel®-IP as
NATO IP Crypto Equipment, NICE

Cryptel®-IP

The TCE 621 IP Crypto Device

Main Features:

- True end-to-end security
- Security services provided:
 - › Confidentiality
 - › Integrity
 - › Access control
 - › Authentication
- Audit support
- Centralised management
- Can be used with any IP network
- Transparent to network services
- Support VPN functions

TCE 621

The building blocks in the Cryptel®-IP System are the TCE 621 IP Crypto Device and the TCE 671 Security Management Centre.

The TCE 621 is inserted between a host (end system) or company network and the IP network. This is used to establish VPN (Virtual Private Networks) solutions, or to provide end-to-end protection of the communications between single hosts.

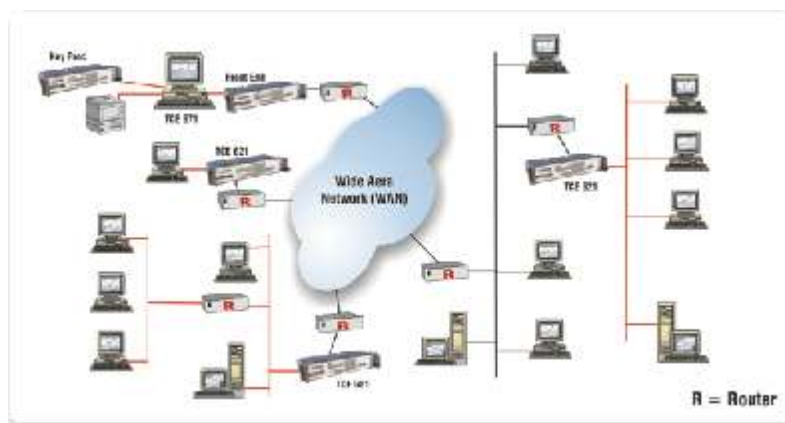
The TCE 621 protects the communications between hosts by adding end-to-end security services to the IP protocol. All security services are provided by the IPsec ESP (Encapsulation Security Payload) protocol as specified by IETF.

Authenticated source IP addresses are provided by the TCE 621 to the communicating hosts. The access control service may be used to prohibit connection between hosts that are not allowed to communicate.

Front panel controls are used for initial configuration of the TCE 621, and to operate the TCE 621 in manual mode.

A Crypto Ignition Key (CIK) is included. With the CIK removed, the TCE 621 is declassified. In addition, an emergency erasure facility and a tampering protection mechanism are included.

The TCE 671 Security Management Centre is used for automatic key generation, key distribution and remote management of the TCE 621. The TCE 671 functions include key management, access control management, security monitoring and configuration management. An extra TCE 671 may be deployed at a different location in the network for increased availability. The TCE 621 may alternatively be operated in manual mode.



Technical Data

Security Characteristics

Security Level

- Approved for all NATO and Norwegian classifications

Operational Security

- Removable Crypto Ignition Key
- Operator Password
- Tampering protection
- Emergency erase switch

Interfaces

BLACK Network Interface

- AUI interface
- 10 Mbit/s Ethernet
- IPv4 (RFC 791)
- IPv6 (RFC 2460)

Physical Characteristics

Temperature

- Operating: 0/+55°C
- Storage: -30/+70°C

Power

- Automatic adaptation to any voltage between 100 V AC and 260 V AC, 47-63Hz

Power Consumption

- Typically 30 W

Human safety

- EEC low voltage directive 72/73/EEG

Performance

- Typically 2 ms processing delay
- Between 500 and 900 IP datagrams per second, depending on packet size
- Up to 1000 Security Associations

Tempest

- According to AMSS 720B

Security Management

- Electronic via TCE 671 Management Centre
- Manual

RED Local Interface

- AUI interface
- 10 Mbit/s Ethernet
- IPv4 (RFC 791)
- IPv6 (RFC 2460)

Installation

- 19" rack mounting
- Table mounting

Dimensions

- Width: 482 mm
- Height: 88 mm (2U)
- Depth: 195 mm

Weight

- 4,7 kg

COMSEC

- NATO approved algorithm (PZKG)

Security Protocol

- IETF RFC 2406 - ESP

Fill Device Interfaces

- DS-101, AN/CYZ - 10 DTD
- DS-102, K01-18
- V.24/V.10 PC
- Smartcard

EMC

- According to EN 55022 Class B

Reliability

- MTTF > 90,000 h (calculated, Mil HDBK 217 F)

Environment

- According to IEC 68-2

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