THALES

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The DTD II is a universal, battery-powered mobile device (also operable with external power supply) used to manage and distribute key files. It is able to store and distribute 'black' and 'red' keys of variable lengths (bytes) in a secure manner. The comfortable alphanumeric keypad (43 keys) and display (6 x 20 characters) allow the user to use the DTD II not only indoors, but also under rough environmental conditions, due to its hardened case.

DTD II is in use within German EKMS as well as NATO sphere and several European programs, e.g. NH90, A400M, CH53G and Tornado. The DTD II will replace the existing fill devices KYK 13 and KOI 18 as well as KSP1 and KLL1; it is designed for use in the armed forces and authorities.

The DTD II can be expanded to provide additional application programs. DTD II is protected against installation of spyware or malware.

The Data Transfer Device is developed by Thales Deutschland within the framework of a key distribution system on behalf of the German Federal Office for Information Management and Information Technology Koblenz.

Data Transfer Device

DTD II

DTD II

Data Transfer Device

MAIN FUNCTIONS

- Storage, secure transport and transfer of
  - TRANSEC and COMSEC keys
  - frequency data and device parameters
- Key and key file management, including tag and key header information
  - storage and output via DS101, DS102 and RS232D interfaces
  - handling of key files to support distribution tasks
  - Key input additionally via MODEM for remote loading
- Recording security-relevant events with time and authentication parameters in an AUDIT log
- Differentiating a maximum of 8 users granting different Crypto Ignition Keys (CIK) with different access rights
- Distributing 'black' and 'red' keys of variable lengths
- Replacing KYK 13 and KOI 18 (or KSP1, KLL1) as well as partial functions of the KYK-15
- Individual encoding of key files for 8 different users with a maximum of eight different CIKs
- Additional options to load userspecific software, e.g. for
  - network data management (e.g. frequencies)
  - device control (e.g. remote keying)
  - frequency hop parameter net control, planning and control information

SECURITY CHARACTERISTICS

Security level

- Approved for all national security levels and all NATO classifications

Operational security

- Removable CIK
- Tamper protection & detection
- Emergency erasure

TEMPEST

- According to NATO SDIP-27 Level A (formerly AMSG 720B)

COMSEC

- NATO approved algorithm

Classification of the DTD II

- Without key:
  CCI - Crypto Controlled Item

INTERFACES

- 6-pin connector (ODU) (for DS101/102, RS232D)
- DS101 – RS485 (64 kbit/s synchronous)
  - HDLC protocol
- DS102 Common Fill Device Interface (CFDI)
- RS232D; acc. to EKMS603
  - asynchronous (PC applications)
  - HDLC protocol (with byte stuffing)
  - Key distribution protocol according to EKMS308
- Secure remote key loading via MODEM
- Adapter cable ODU – Eurocom D/1
- 7-pin connector (ODU) for external power supply
- CIK Crypto Ignition Key
- MMI Entry: alphanumeric keypad with 43 keys
  Display: 6 x 20 characters

PHYSICAL CHARACTERISTICS

Temperature

- Operating: -20 °C to + 70 °C (depending on battery type)
- Storage: -40 °C to + 70 °C

Weight

- Approx. 1.75 kg

Dimensions, approx.*

- Height: 55 mm
- Width: 240 mm
- Depth: 160 mm

Power supply

- 2 standard batteries (C-size), each 1.5 V (optional external power supply)

EMC

- According to VG-Guidelines/MIL-STD-461E

Environment

- According to MIL-STD-810E
- Vibration to 514.4
- Low pressure to 500.3
  High altitude 10000 m
- Shock to 516.4

* without handle

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