



Crypto Reader – CRy-18

Part of CyBELS KMC Defence



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The Crypto Reader (CRy-18) offers key transportation capabilities using smart cards. Formerly designed as replacement for outdated paper tapes, it provides easy transportation means for specific smart card use cases. Therefore, the device supports key distribution and key loading into crypto hosts via standardised interfaces.

The CRy-18 can load key material as shown in the key management process depicted in figure 1. For key management services concerning generation, preparation, distribution, PKI features or a combination of all depicted segments please refer to our Cybels Key Management Centre brochure.

Following the key distribution process, the CRy-18 can extract different key material types as well as key files stored on a smart card and allows for secure loading of the key material into a Data Transfer Device (DTD II) or directly into any crypto host supporting the DS101 (DTD and newer generation crypto devices) or DS102 (older generation crypto devices) interface. Keys stored on a smart card are securely protected.

After key transfer, keys stored on the smart card will be deleted automatically. CRy-18 is a battery powered device with an auto power off function after termination of the key transfer process.

Additional device functionality can be introduced under the supervision of the German Federal Office for Information Security (BSI). CRy-18 perfectly integrates into the Cybels KMC Defence product line of Thales.



FIGURE 1 - CRY-18 IN CYBELS DEFENCE PORTFOLIO



MAIN FUNCTIONS

Substitutes key transportation via KOI-18/tape

- Cost effective solution
- DS102 for older crypto devices
- DS101 for newer crypto devices and fill devices
- Red key distribution
- Black key distribution
- Key sets can be operated as files
- Fill and issue mode enable key loading

Copy protection

- Repeated key transfer blocked

Uses standard smart card with BSI specific configuration set

- Programmable to support the latest smart card technology

POWER SUPPLY

- Battery: 3 Mignon cells (AA)

- No external power supply
- Voltage control
- Auto power off when battery level is low
- RAM storage cleared before power off

OPERATION

- Auto power on when smart card is inserted
- Auto power off after key transfer, transfer timeout and when smart card is removed

INTERFACES

- DS101
- DS102

WORKS WITH

- CYBELS KMC Defence
- Data Transfer Device - DTD II



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THALES

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