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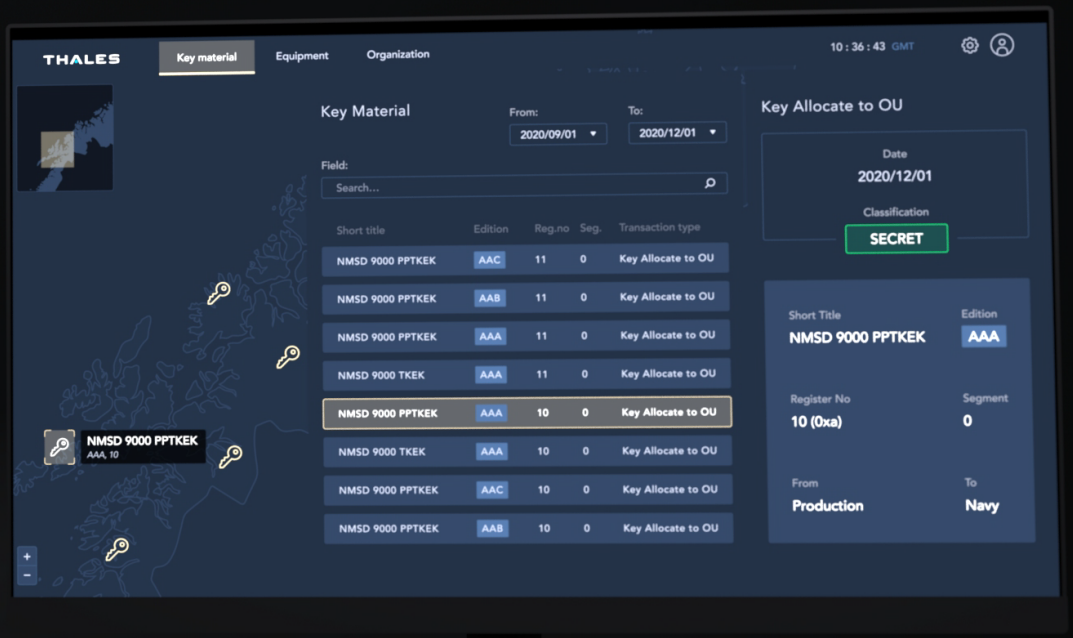



# eCustodian

## Crypto Management System

# eCustodian II Crypto Management System

eCustodian is a complete, flexible and cost effective system for day-to-day management of all types of crypto material, accounting and inventory control, key production and distribution. Compliant with SDIP-293 and in process to be approved by NATO for all classification levels.

eCustodian provides secure and efficient crypto management according to NATO regulations and is adaptable to national Security Acts.

## Main features

- Planning, ordering and distribution of key material
- Integrated approval process and key production facility
- Efficient import of keys from NATO (DEKMS, DKMI) and other sources
- Secure storage and electronic distribution of key material up to and including COSMIC TOP SECRET
- Accounting of crypto material according to NATO requirements
- Integrated warehouse management and shipment of crypto equipment for efficient workflow

### KEY PLANNING, ORDERING, PRODUCTION AND IMPORT

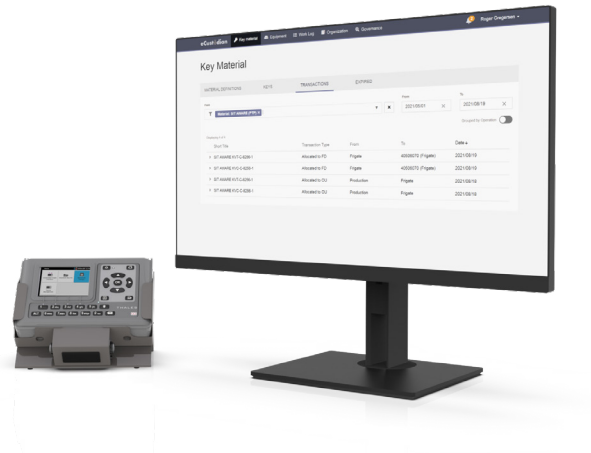
eCustodian key management function provides integrated planning and ordering of crypto keys and equipment. Authorised users may issue orders for single keys or entire crypto networks. eCustodian supports all aspects of order approval including Controlling Authority.

eCustodian has an integrated key production capability. A crypto order may result in the production of several keys and controlled transactions to a number of recipients, i.e. Crypto custodians. Notification of availability is forwarded to the recipients. The complete process from ordering via approval and production, to distribution to the end user, can be performed within minutes.

eCustodian manages key import from NATO (DACAN Electronic Key Management System; DEKMS, DACAN Key Management Infrastructure; DKMI) or other external sources. The system supports both EKMS 308 (DS-101) fill device and DEKMS bulk file import formats (CUAS XBKD).

### OPERATIONAL FLEXIBILITY

eCustodian is designed to maximise operational flexibility of crypto management. The users access the system via a web browser and manages key material using network enabled electronic TCE 811 fill devices. User privileges are controlled using a role based authorisation system. The users access the central eCustodian servers and key processors via a secure user IT infrastructure enabling centralised control and distributed operational tasks.




Hence, controlling the cost of system maintenance, and keeping the user site installation footprint as small as possible. Delivered as a software with or without system components.

### ACCOUNTING AND GOVERNANCE

Use of eCustodian is crypto account centric, and allows crypto material to be assigned to and moved between accounts. All operations involving key material or equipment in eCustodian automatically stores transactions in the accounting system and provides standardised report formats compliant to NATO regulation SDIP-293.

eCustodian accommodates event logs from attached TCE 811s to account for actions performed in the device while disconnected.

# eCustodian II Crypto Management System

## ELECTRONIC KEY STORAGE AND DISTRIBUTION

All keys produced by or imported to eCustodian are stored in the encrypted Secure Storage. The system provides features for managing the storage with database re-encryption and destruction. Any electronic key stored in, or distributed by eCustodian are safely encrypted using the TCE 811 Key Processor (KP). At the user site, keys are downloaded from the Secure Storage to network enabled TCE 811 Multi-Application Device (MAD) that connects directly to the eCustodian infrastructure and downloads key material (keys and publications). The crypto custodian can freely allocate keys among TCE 811s within his control. The keys in transmission are encrypted exclusively for the targeted TCE 811.

eCustodian High Assurance Public Key Infrastructure (HA PKI) provides digital certificates. HA PKI supports secure encryption of key material for distribution as well as transaction signatures. The eCustodian HA PKI is based on a TCE 811 unit configured as PKI Hardware Security Module (HSM).

eCustodian is designed according to the NATO Key Management Infrastructure (KMI) architecture, and will support Over the Network Keying (OTNK) when the NATO standard is released.

## INVENTORY CONTROL AND PHYSICAL DISTRIBUTION

eCustodian offers inventory control of physical key material and physical crypto equipment. It supports standardised equipment barcode labels in STANAG 2290 and EAN format. The system apply barcode read and print for effective registration of equipment and inventory counting. End systems may require key material on physical media. eCustodian provides distributed reproduction facility for printing of electronic key material to smart cards, CD/DVD etc. in encrypted and unencrypted reproduction formats.

## SECURE AND CERTIFIED

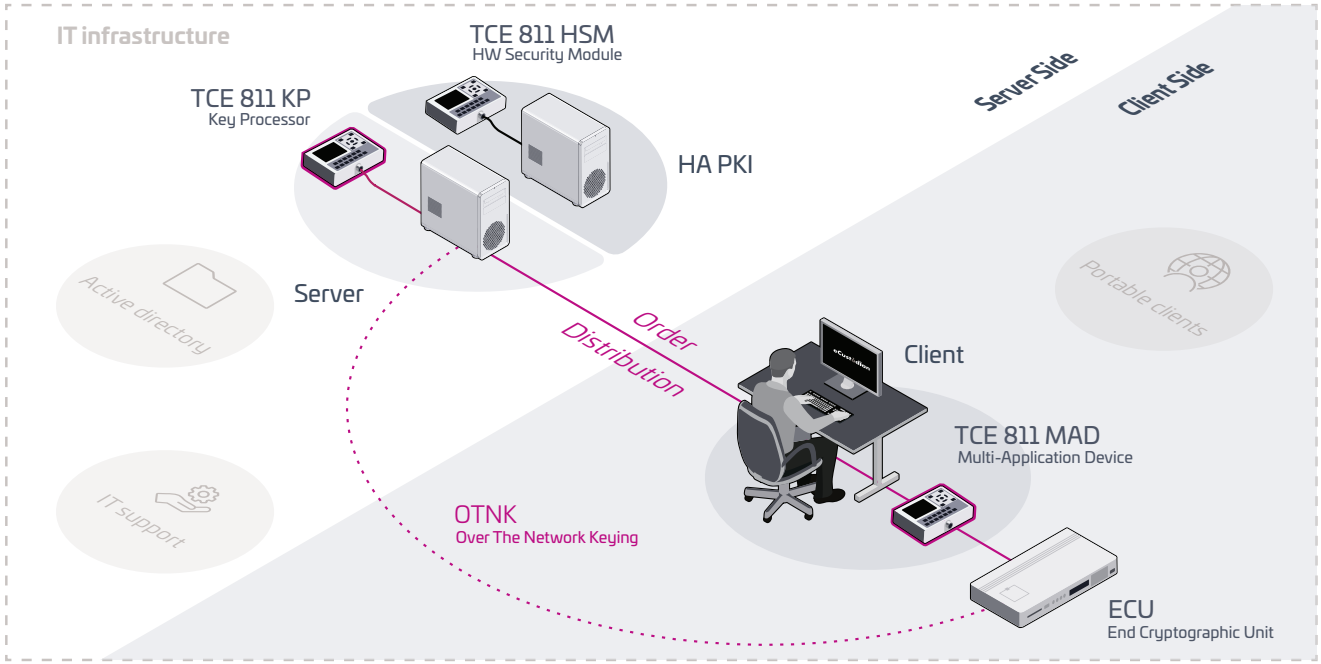
eCustodian is developed in close cooperation with National Security Authority (NSM) and will be evaluated by SECAN (NATO Security and Evaluation Agency) to handle NATO and national key material up to COSMIC TOP SECRET or equivalent classification level.

## TCE 811

TCE 811 is a flexible platform approved by SECAN for hosting security applications up to COSMIC TOP SECRET or equivalent classification level. With eCustodian it is used to download keys over the network and is the electronic key storage and fill device for crypto custodians.

## MIGRATION

eCustodian II is the evolution of the previous eCustodian I system operating in Norway and several NATO nations. Existing eCustodian I customers upgrading to eCustodian II can migrate data to the new system.



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