



Utimaco HSM Introduction JIPDEC Seminar June 2017

Joerg Horn
Director Business Development

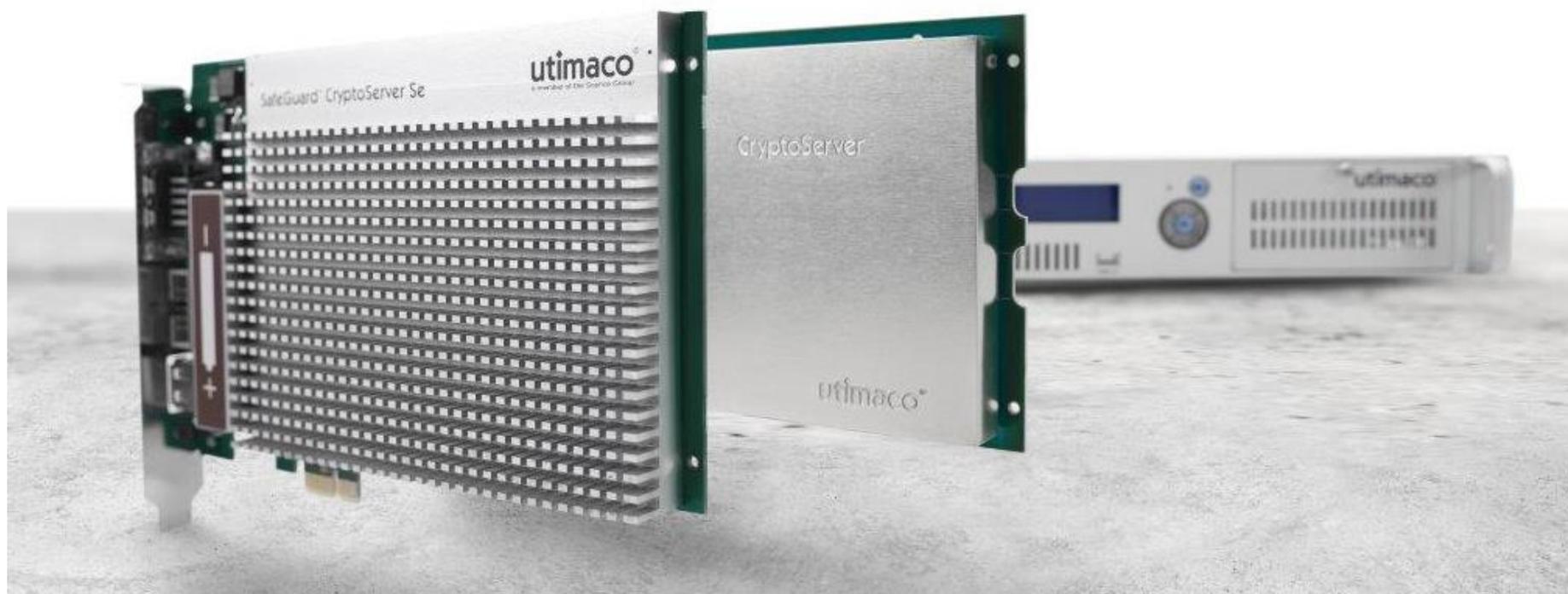
utimaco[®]

- Part 1
 - Introduction
 - Utimaco
 - History
 - HSM
 - HSM Produkt Portfolio
- Part 2
 - eIDAS
 - Signature Creation
 - TimeStamping
 - Outlook

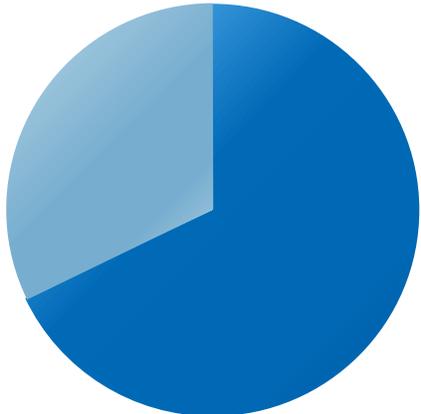
- About Utimaco

Utimaco Hardware Security Modules

- precision engineering for your security needs



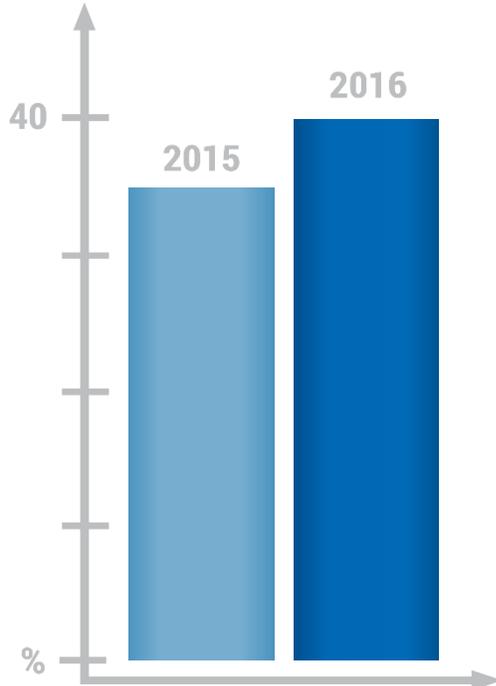
170+ Employees
70% in R&D, Support
and Production

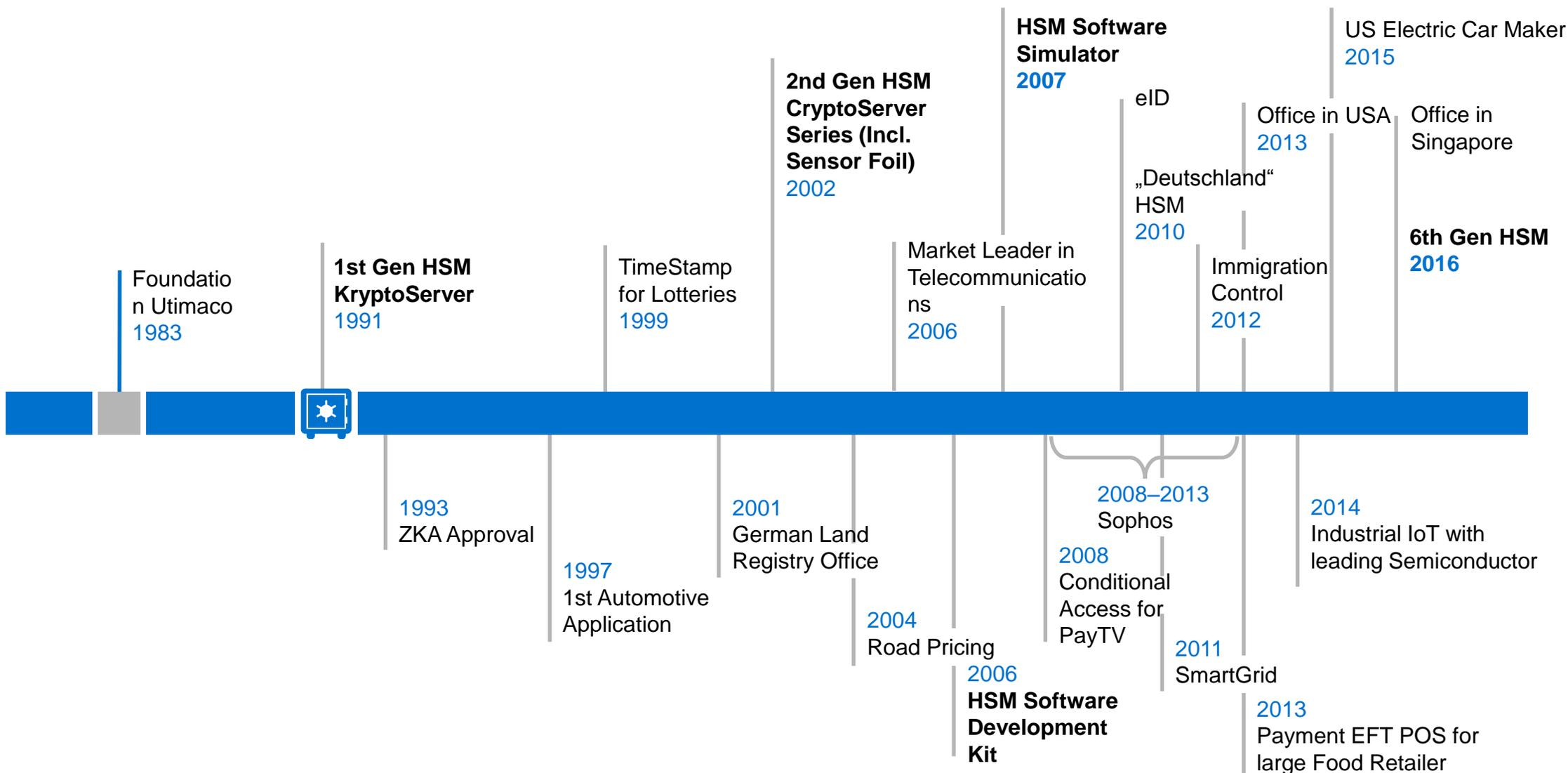


1.000+ Installations

Fastest growing independent HSM vendor worldwide

~ € 40 Million Revenue



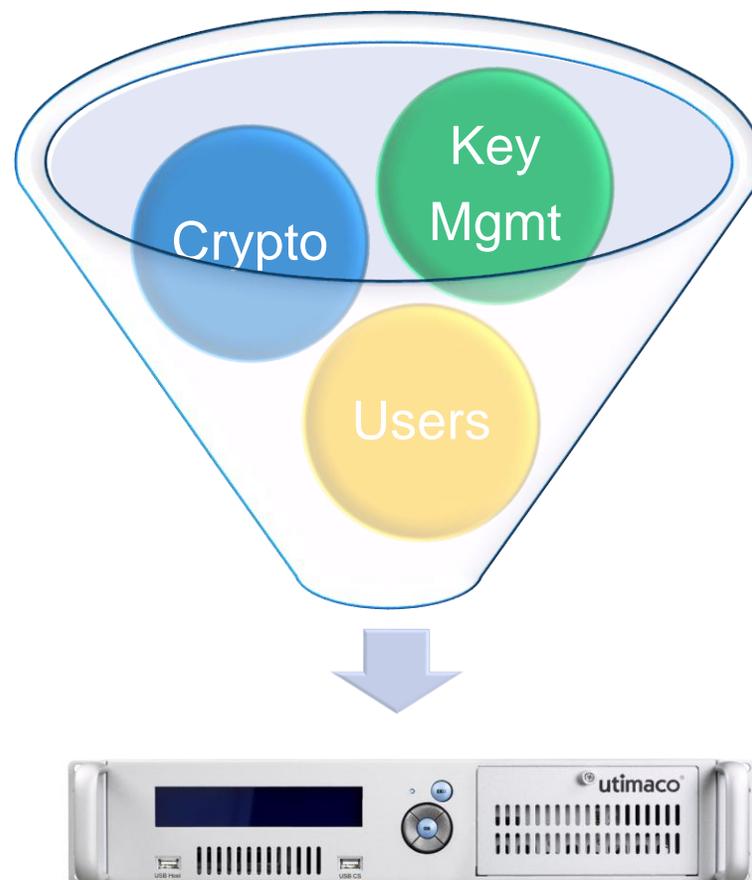


- About HSM

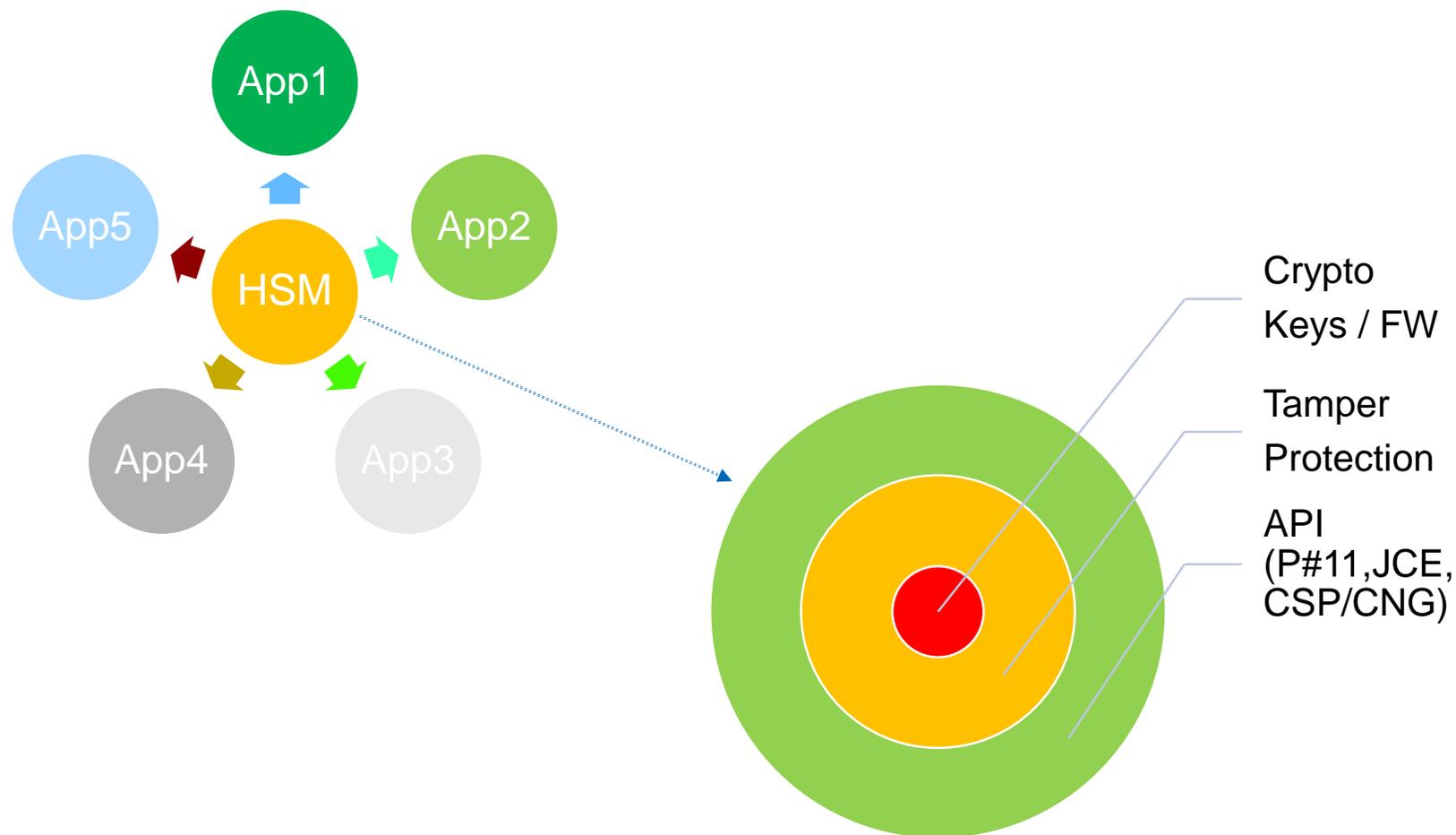
HSM applications

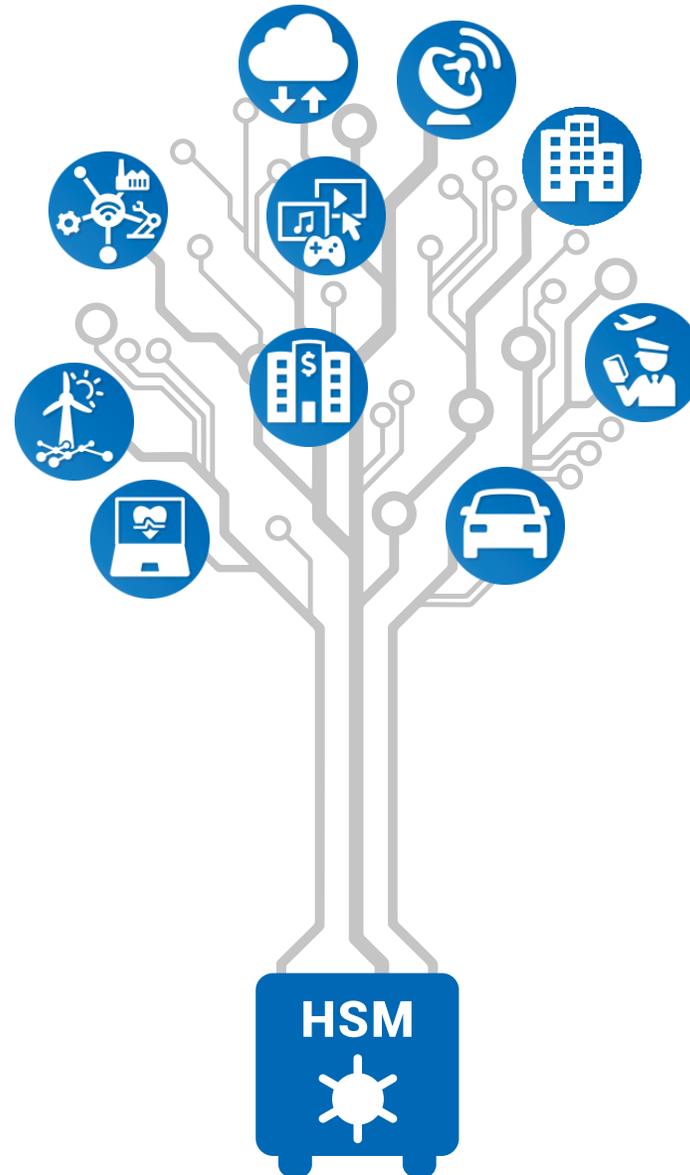


Offload sensitive data operations from Apps to an HSM.



Trustworthy Cryptographical Resource



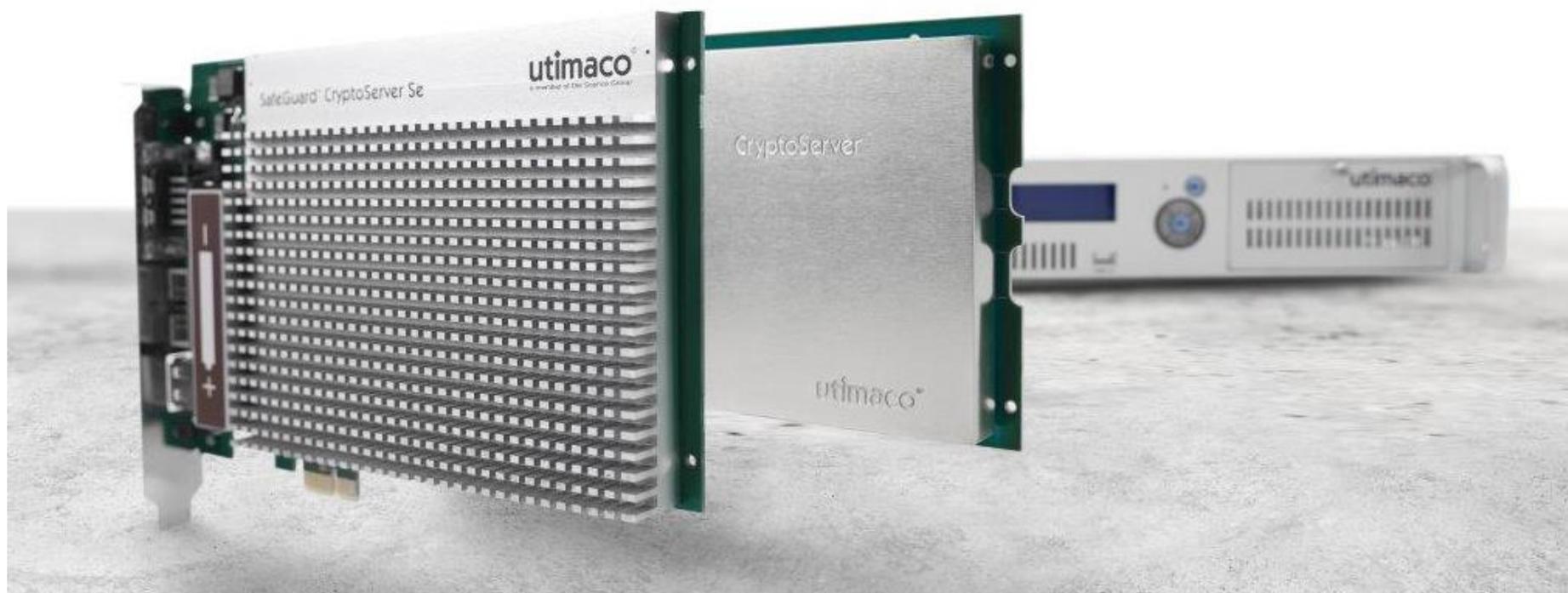


*We keep your
cryptographic keys safe*

- Product Portfolio

Utimaco Hardware Security Modules

- precision engineering for your security needs



Hardware Security Modules

Se-Series
12/52/500/1500

CSe-Series
10/100



Physical
Interface

PCIe
plug-in card

Network
attached

PCIe
plug-in card

Network
attached

Certifications
(* in progress)

**FIPS 140-2 Level 3,
CC EAL4+***
Based on CEN PP EN 419 221-5
„Cryptographic Module for Trust Services“

**FIPS 140-2 L3 Phys.Sec. L4,
PCI HSM* (PCI PTS).
CC Attack Potential “High”,
Deutsche Kreditwirtschaft**

Cryptographic
Support

(T)DES, AES, RSA, (EC)DSA, (EC)DH, SHA, ...

OS

WIN / LINUX / AIX* (*Appliance only)

Se-Series 12/52/500/1500

CSe-Series 10/100



SecurityServer
(General Purpose HSM)

PKCS#11, JCE, MS CSP/CNG/SQL EKM, CXI

CryptoServer SDK /
CryptoScript *

Development Kit for CryptoServer Firmware Customization

TimestampServer

Signature Creation acc. RFC 3161, CTS API

More..

Free HSM Software Simulator (Win/Linux), PCI HSM /Payment Program (Free EFT POS API)

- Critical Infrastructure (backbone of a nation's economy, security, and health)
 - Energy/Smart Grid
 - Industry/IOT
 - Government PKIs and application (ID cards, passport, health system,..)
 - Finance
 - Transportation
 - Health System

- Secure Cloud Services
 - Cryptographical services for all cloud architectures
- GDPR
 - General Data Protection Regulation (EU) 2016/679. Applies from May 2018
- eIDAS
 - EU Regulation on electronic identification and trust services, since July 2016

Unique Benefits

- Unmatched capacity/scalability
 - Internal and external key storage
 - Virtually unlimited #slots (partitions)
 - High performance
- Lowest TCO
 - Fixed-price policy, no hidden costs
 - no extra charges
 - for algorithms (ECC etc), clients/hosts/tenants/partitions/ connections
 - Best price/performance ratio
- Easy-to-use remote mgmt.
 - No additional cost
 - Backup of FW and user/key DB to disk
 - FW update preserves keys
- Full-functionality HSM simulator
 - Cryptography, mgmt., logs, SDK, ...
 - Testing, training, integrations, ...
 - Rapid product evaluations
- Highly configurable
 - Configurable role-based access
 - Extended authentication (2FA, M:N)
 - Configurable hardening of crypto providers
- Best-in-class SDK
 - Virtually unlimited number of FW modules
 - Script or C based SDK

Selected integrations

