Llaves criptográficas: Los activos más preciados de una empresa

* Para brindar la oportunidad a entrar a todos los participantes la sesión comenzara a la 1:03pm E.T. Gracias











We are driven to take a leading market position by providing uncompromised Cyber Security solutions fulfilling the highest standards.

With responsibility for global customers and citizens we create innovative solutions to protect data, identities and communication networks.





330 highly skilled experts



Founded **1964**Private company



50+ years in IT and35+ years in IT-Security



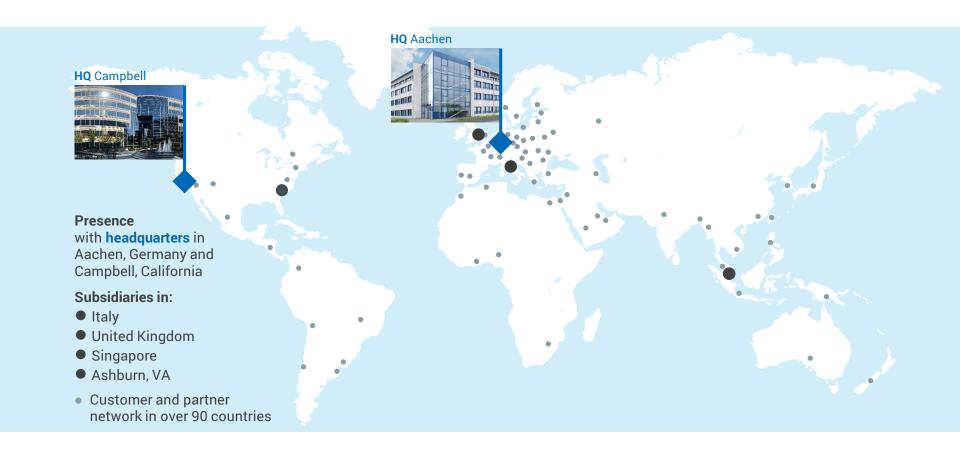




UTIMACO Worldwide



Diversity and internationality are the key to our success





...people and digital identities against terrorism and cyber crime

With proven,

that meet regulation &

compliance standards



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Encryption-based, high-security solutions



Hardware Security Modules



Key Management Cyber Security & Compliance

Solutions

Co

Lawful Interception Mediation System

Telecom Solutions

Compliance solutions

for telecommunication

providers



Data Retention Suite



Lawful Interception Test Suite

Creating Trust in the Digital Society

Cryptography and Key Management

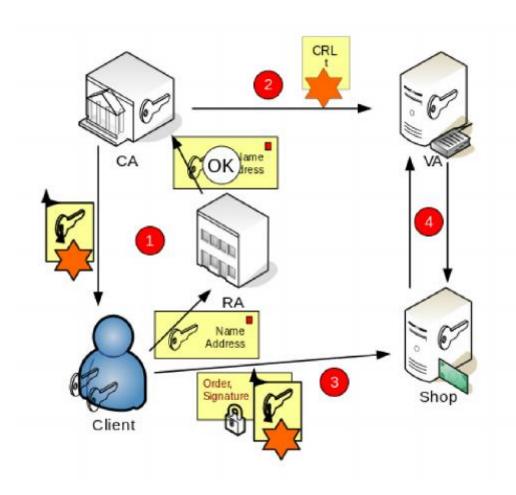
Ricardo Trujillo V.

Ricardo.Trujillo@utimaco.com



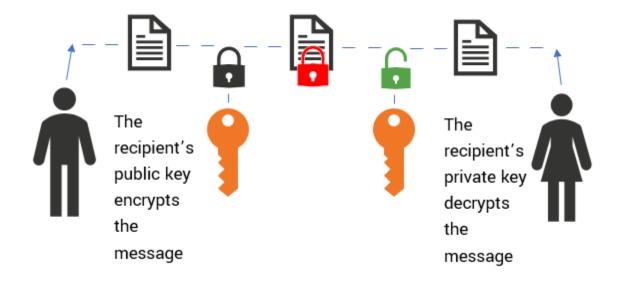
Public Key Infrastructure



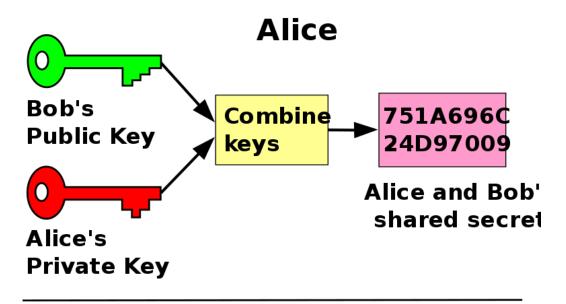


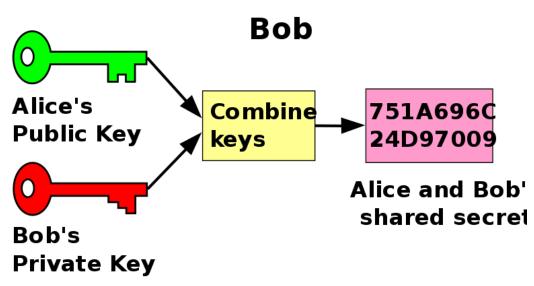
Asymmetric Cryptography











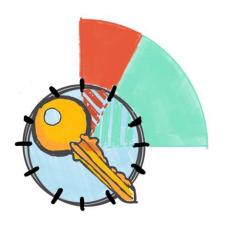


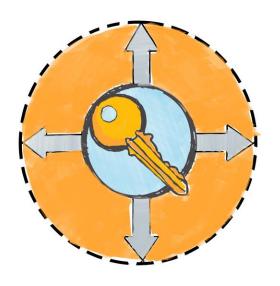
Private Key Encryption (Symmetric)

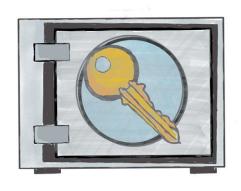




core key management goals







LIFECYCLE

DISTRIBUTION

STORAGE



Storage

Destruction

Revocation



Activation

Distribution

Expiration

Rotation

Secret Keys (Not to be Shared)

Shared Keys

TDE



PKI

Remote Key Loading

Key Injection





What can go wrong? If you...

- Lose your Keys
- Expose your Keys
- Store Keys with Data

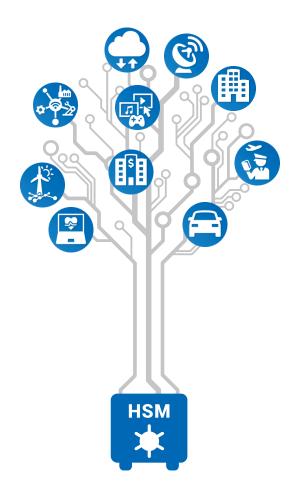
- → Erase your Data!
- → Expose your Data!
- → Intruder says "Thanks! ©"
- ■Don't Control or Log Access to Keys → Fail next Audit!

Data Retention



The Root of Trust





We keep your cryptographic keys safe

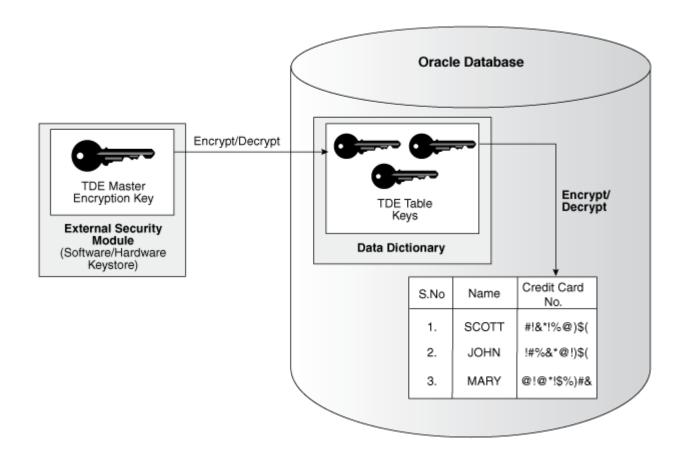
Use Cases





TDE Database Encryption

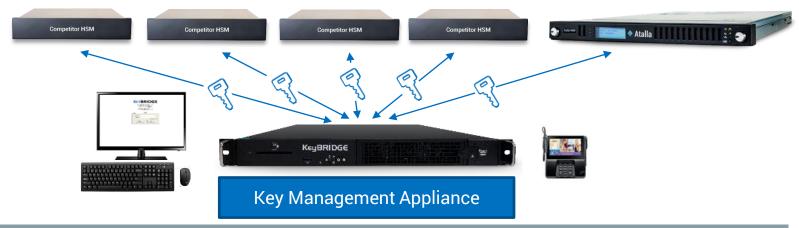




UKM (Universal Key Management)



All aspects of HSM Key Management can be addressed via one solution



Features and Certifications

- Centralized Key Management
- FIPS 140-2 Level 3 HSM
- Third Party HSM Integration
- Secure Component Entry
- Component Management
- Cryptogram Management
- User-Definable Key Attributes
- Exportable Key Detail Data

- Secrets Management
- Relationship Management
- Successfully passed PCI PIN, DSS and Interact Audit
- Automated Logging
- Support for Key Bundling (TR-31)
- Support for TR-34

- Symmetric Support to 256 AES
- Asymmetric Support RSA & ECC
- 2-Factor Authentication
- JSON Schema RESTful API
- PIN Mailer Printing
- Automated Backup
- Quick Restore

Unifying Data Protection



Generate and Manage Encryption Keys Securely

Utimaco's Enterprise Key Management Vision











- Meet Standards and
- Audit/Compliance

Protect Sensitive Data
 Wherever It Lives

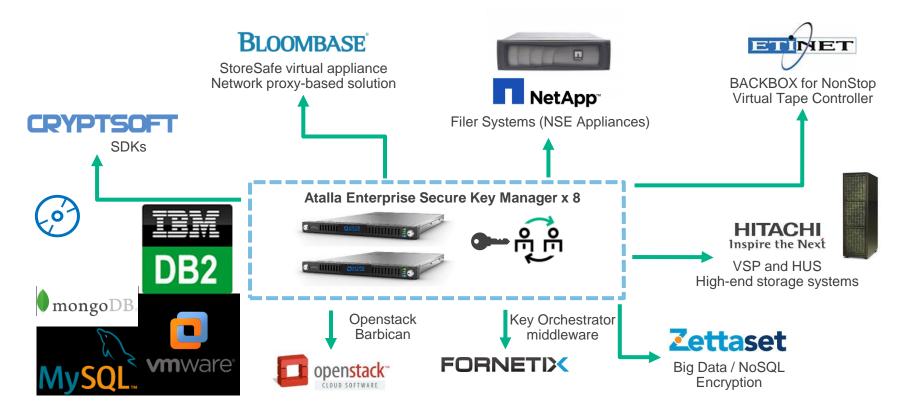
Disk, Tape, SAN, Devices Cloud, Service Providers Database, Applications

Scaleable, Reliable, High Availability FIPS 140-2 Level 2
PCI-DSS, Data Privacy
HIPAA/HITECH

KMIP Interoperable Integrations

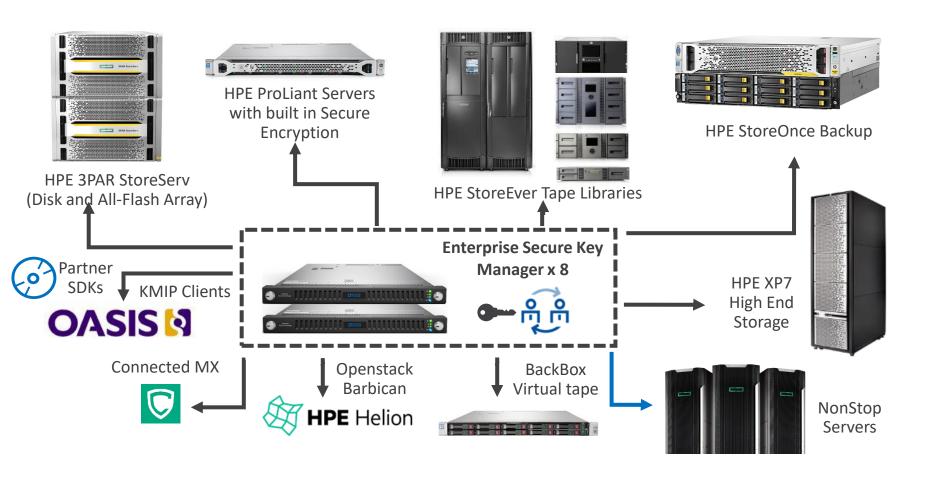


ESKM leads in compliance for application interoperability



HPE Storage Portfolio Integrations













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