Enable Your Business With Utimaco's Cloud-Based Marketplace

Lower Total Cost of Ownership ◆ Flexible Deployment and Easy Scalability ◆ Backed-up by High Security Physical Setup*

Utimaco's Trust as a Service is a cloud-enabled Marketplace that delivers Data Protection, Secure Payments, and Key Management online services. Leverage the cloud to deploy and manage your business while enjoying lower total cost of ownership, smooth integration, and the ability to scale instantly.

File and Folder Encryption as a Service

General Purpose HSM as a Service

eInvoice Signature as a Service

Payment HSM as a Service

Key Exchange and Escrow as a Service

Device Attestation as a Service

Timestamp as a Service

Highlights

Reduce the Total Cost of Ownership by eliminating hardware and staff cost

Flexible deployment and scalability with easy integration based on business demands

Backed up by high security physical setup, enabling the most robust security

Key Benefits

Lower Total Cost of Ownership
Eliminate on-site expenses and hardware investments while also cutting down on both operational and staffing costs.

Flexible Deployment and Easy Scalability
Seamlessly mesh with your current business operations, adapt with agility, and effortlessly adjust your scale to meet your enterprise's distinctive needs.

Backed by High Security Physical Setup*
Equipped with proven Hardware Security Module technology, our services deliver the most robust security performed in critical infrastructures worldwide.

Creating trust for your digital business within a few clicks. Driven by you – powered by Utimaco
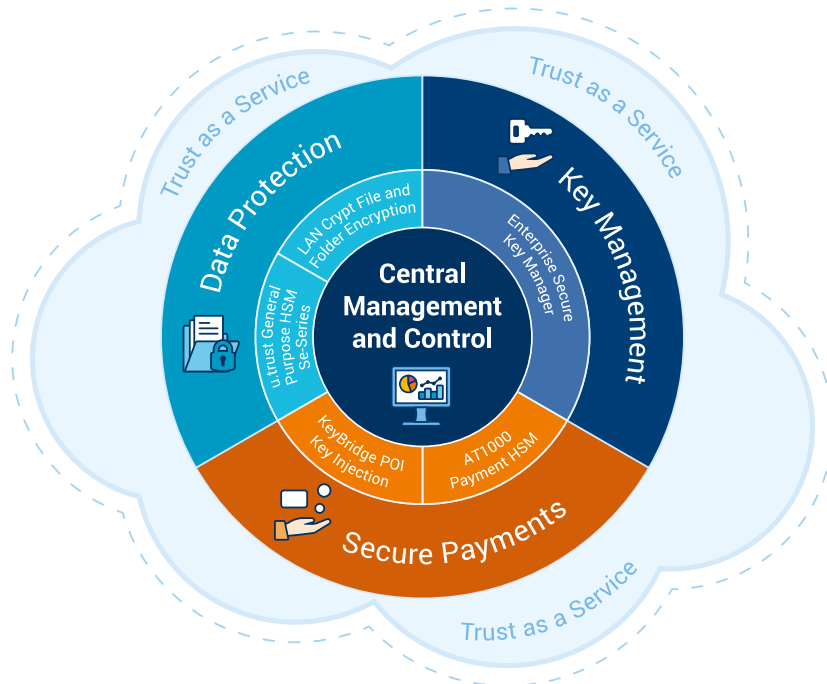
* Specific type of underlying physical setup is depending on the individual service

Utimaco's Trust as a Service Solution Overview

General Purpose Hardware Security Module
as a Service

No implementation Efforts ◆ FIPS-certified ◆
No CSP Vendor Lock-In ◆ High Availability ◆ 24/7 Support

Our General Purpose HSM as a Service provides access to a FIPS 140-2 Level 3 HSM that is fully hosted by Utimaco but under your sole remote control. This enables secure key generation, storage, and management without any setup, maintenance, or implementation effort – reducing the total cost of ownership.

Payment Hardware Security Module
as a Service

Reduced Costs ◆ Fully Managed Service ◆ PCI certified ◆
Multi-Cloud ◆ High Availability

Our Payment HSM as a Service offers a suite of fully managed services as an alternative to operating your own estate of Payment HSMs in your own data centers. The service removes the need for customers to invest in hardware, secure facilities, and management resources and reduces the burden of PCI compliance, audit, and support.

File and Folder Encryption
as a Service

Quick Setup ◆ Role-based Encryption ◆
Unauthorized Access Protection ◆ 30-day Trial

Fully operational service in less than 15 minutes that protects files and folders against unauthorized internal and external access, irrespective of storage location. Whether it is data protection at rest or in motion or giving correct access rights to users, this is the required solution. Fulfill the use cases like sensitive data protection, secure file sharing, compliance fulfillment, and client confidentiality.

Key Exchange and Escrow
as a Service

Key Generation and Escrow ◆ Legacy Key Exchange ◆
Multi-Cloud Capability

The PCI-PIN certified service providing trusted cryptographic key management. Our trained Utimaco staff is available 24/7 to execute reliable and secure on-demand cryptographic key operations. Suitable for a variety of payment and general-purpose business applications, such as: Key Generation, Key Escrow, Key Inventory, Key Exchange, Key Storage, Key Migration, Key Rotation, and many more.

eInvoice Signature
as a Service

Secure and Trustworthy Verification ◆ Full eIDAS Compliance ◆
High Availability

Our service provides eIDAS-compliant Qualified Electronic Signatures, ensuring trust in your invoices. It enables you to generate, validate, and archive Qualified Electronic Signatures, focusing on electronic business documents such as invoices, incoming orders, delivery bills, or financial statements.

Timestamp
as a Service

Secure and Trustworthy Verification ◆ Full eIDAS Compliance ◆
High Availability ◆ Easy Integration

Our service provides Qualified Electronic Timestamps, enabling eIDAS-compliant proof of time and content. It enables you to generate, validate, and archive Qualified Electronic Timestamps, allowing you to gather trustworthy legal evidence that a document has remained unaltered. Standard interfaces ensure rapid and easy integration into existing business processes.

Device Attestation
as a Service

Unique Identities ◆ Management ◆ Key Storage and Audit
Possibilities ◆ Trust among IoT Devices

Our solution establishes unique identities for IoT devices, enhancing security and enabling remote management for effortless control over cryptographic key injection, ensuring integrity and trustworthiness throughout operations.

Discover Utimaco´s
Trust as a Service Offerings on
https://utimaco.com/products/trust-service

Technical Overview

General Purpose Hardware Security Module as a Service

Certifications and Compliance

- FIPS 140-2 Level 3 certified HSM
- GDPR
- HIPAA
- ETSI C-ITS
- GSMA SAS-SM

Performance

Up to 40,000 RSA 2K signatures / s

Supported Cryptographic Algorithms

- Symmetric algorithms: AES, Triple-DES, DES
- Asymmetric algorithms: RSA, DSA, ECDSA with NIST and Brainpool curves, EdDSA
- Elliptic Curves: DH, ECDH with NIST, Brainpool and Montgomery curves
- Hashing algorithms: SHA-1, SHA-2, SHA-3, RIPEMD
- MAC/sealing algorithms: MAC, CMAC, HMAC
- Optional upgraded with blockchain-specific algorithms: BIP32/44 and SLIP-010

Hosting information

- Hosted in an ISO/IEC 27001, HIPAA, PCI, and GSMA SAS-SM compliant data center
- 24/7 support from the HSM vendor
- Setup and additional hardware included
- Secure server room with dedicated HSM per customer
- All relevant security and regulatory certifications
- Current regions: Europe & Americas

Supported cryptographic interfaces

- PKCS #11
- Java Cryptography Extension (JCE)
- Microsoft Crypto API (CSP), Cryptography Next Generation (CNG), and SQL
- Extensible Key Management (SQLEKM)
- OpenSSL
- Utimaco's comprehensive Cryptographic eXtended services Interface (CXI)

Payment Hardware Security Module as a Service

Certifications and Compliance

- FIPS 140-2 Level 3 certified HSM
- PCI PTS HSM V3
- PCI DSS
- PCI PIN
- TR-31 Key Block Support

Performance

Up to 10,000 TPS

Supported Cryptographic Algorithms

- Symmetric algorithms: DES, 3DES, AES
- Asymmetric algorithms: RSA 1024 to 4096
- Hashing algorithms: SHA-1 to SHA512
- MAC/sealing algorithms: MAC and HMAC, CMAC

Payment Standard

- **ANSI** X3.92, X9.52, X9.97, X9.8, X9.24, X9.17, TR31, TR34, TR39
- **APACS** 40 and 70
- **ISO** 9797, ISO 10126, ISO 9807, ISO 16609, ISO 9564
- **NIST** security standards SP800-90 (RBG), SP800-38A, SP800-67
- **DUKPT** X9.24, (DUKPT 2018)
- VISA, MASTERCARD, AMEX, CHINA UNION PAY, JCB, DISCOVER

API and Communication Protocol

- PTCP/IP sockets
- TLS sockets
- REST API

File and Folder Encryption as a Service

Certifications and Compliance

GDPR, CCPA, TISAX, HIPAA, PDPA, NIS2 Directive, etc.

Mobile Operating Systems

Android (11,12,13,14), iOS/iPadOS (15,16,17)

Supported Platforms

Microsoft Terminal Server, Virtual Machines, OneDrive, Azure SQL, Dropbox, Google Drive, MS Azure

Supported Directory Service

Microsoft Entra ID

Technical Requirements

Client 64 Bit -Windows 10 Pro/Enterprise, Windows 11 Pro/Enterprise, Windows Server, macOS, Support Citrix Environments

Supported Media

Network drives, local HDs, CD/DVDs, USB, Flash drives, Memory cards

Supported Cryptographic Algorithms

AES 256 Bit

Key Exchange and Escrow as a Service

Certifications and Compliance

- PCI PIN, PCI P2PE, FIPS 140-2 L3 HSM, PCI PTS HSM
- SOC2, PCI-DSS
- ISO27001, ISO9001, ISO14001
- NIST SP800-53

Hosting Information

Hosted in a highly secure datacenter providing:

- 24/7 onsite security personnel
- CCTV with 90-day backup
- Biometric / Photo badge access
- Crash-rated / Anti-climb gates
- Geo-redundancy

Hardware-Based Security

Based on hardware appliances with integrated HSM as Root of Trust

- Dedicated to secure key generation and storage inside a tamper-protected HSM
- Fully protecting cryptographic keys under AES 256 Bit encryption
- Hosted in Utimaco Datacenter

Subject matter experts carrying out associated key management responsibilities, including:

- Key Generation
- Key Escrow
- Key Inventory
- Key Exchange
- Key Storage
- Key Migration
- Key Rotation
- Key Export
- Key Distribution (e.g., to POS Devices and other endpoints including IoT Platforms)
- Key Custody
- Key Management

eInvoice Signature as a Service

SMTP Interface

- E-mail interface (Proxy) through SMTP protocol, using encrypted connections (START TLS) via mail relay/smart host
- Authentication via account credentials
- Maximum file size, unless otherwise agreed, 15 MB

REST Interface

- REST interface with an encrypted connection (HTTPs) for transmission, pickup, and status query for data/documents to be signed, stamped, archived, and checked.
- Data traffic encryption via TLS
- Authentication via account credentials
- Maximum file size, unless otherwise agreed, 15 MB

SFTP Interface

- SFTP interface with secured file transfer
- Easy and flexible integration
- Authentication using account credentials or certificates
- Maximum file size, unless otherwise agreed, 15 MB

Timestamp as a Service

RFC 3161 Interface

- Standard interface to request timestamps
- Data traffic encryption via TLS
- Authentication using account credentials
- Transmitting of document HASH values

Device Attestation as a Service

Certifications and Compliance

PCI PIN, PCI P2PE, GSMA SAS-SM (DCOM), ISO 27001

Supported Cryptographic Algorithms

TDES, AES, RSA, ECC

Utimaco Datacenter – Backbone of our Service

Datacenter Building

SOC 2, PCI-DSS, ISO 27001, ISO 9001, ISO 14001, NIST SP 800-53

Private Cage

24/7 Monitoring, Collecting logs, Redundant network infrastructure and service components, CCTV and motion detection

Compliant Secure Room

PCI PIN, PCI P2PE, GSMA SAS-SM (DCOM), ISO 27001

Compliant Cloud Personnel

Certified key custodians, Trusted operation personnel

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