



The Utimaco TimestampServer is the ideal Hardware Security Module (HSM) for business applications that require proving the **existence and status of a document or data at a specific point in time**.

Secure timestamps for document and data authenticity

The Utimaco TimestampServer ensures the **tamper-proof creation and authenticity of timestamps** for electronic contracts, the reception of offers on electronic tender platforms or the submission time of a bet to an online lottery game. The Utimaco TimestampServer ensures that timestamped data is authentic for these and similar applications. It is able to verify at all times, whether or not the timestamped data matches the exact same form at the point in time it was logged by the timestamp.

Regular re-creation of a **current timestamp guarantees continuity** of the audit trail. This enables long-term archiving – year after year, even after the expiration of older signature certificates.

The TimestampServer is available as network appliance.





Product Highlights

Fields of application

- Document management and archiving systems
- Long-term archiving solutions
- Electronic tender platforms
- Lottery and online betting
- Electronic contracts
- Support and ticketing systems

Secure investment

- Highest performance level at an attractive price
- Non-limited number of connections
- Easy software upgrades for adapting to future timestamp protocols and algorithms

Interfaces

- RFC 3161 timestamp protocol via HTTP or TCP, IPv4 and IPv6 network protocol
- PKCS#10 and PKCS#7 for request and import of TimestampServer certificates
- CryptoServer Timestamp API for general TimestampServer administration
- Network Time Protocol (NTP) for synchronization of TimestampServer with external time server

Algorithms

- RSA, key length up to 8192 bits
- Hash algorithms SHA-1, SHA-2 family, SHA-3, RIPEMD-160, MD5

Security

- Integrated Hardware Security Module is certified in accordance with FIPS 140-2 Level 3
- Meets requirements of ETSI Technical Specification TS102023 "Policy Requirements for Timestamping Authorities"
- FIPS 140-2 Level 4 physical security with TimestampServer CSe-Series



Key Features

Interoperable

- Supports OASIS KMIP, NIST, and other security standards
- Supports a growing range of tape, disk, network, cloud, and desktop partner data protection products and solutions
- Upgradeable to new software releases

Secure

- Hardened server appliance designed as a FIPS 140-2 Level 2 cryptographic module
- Keys are always encrypted at-rest and in-motion; TLS encrypted communications
- Common Criteria Evaluation Assurance Level (EAL 2+) certified
- Strong mutual certificate authentication available for client access to keys
- All software is included, pre-installed, digitally signed, and verified at startup
- Local Certificate Authority as an option

Scalable

- Clusters span and serve multiple data centers, across geographic locations
- Supports tens of thousands of encryption clients and millions of keys

Reliable

- High-availability clustering, 2–8 nodes
- Performs automatic key replication, client load-balancing, and fail-over
- Fault-tolerant hardware with mirrored internal disks, dual power supplies, dual network ports, and redundant cooling

Manageable

- Secure remote administrator access to assign roles and privileges
- Scheduled backups and log rotations
- SNMP alerts and SIEM log monitoring



Technical Specifications



Physical Dimensions

- **Height:** 1.69 inches (4.3 cm)
- **Width:** 19.01 inches (48.3 cm)
- **Depth:** 30.87 inches (78.4 cm)
- **Full configuration weight:** 32.8 lb (14.8 kg)
- **Form factor:** 19" 1U



Connectivity

- **Interfaces:**
2 RJ45 1 Gb/s network interfaces



Electrical and thermal characteristics

- **Redundant field-replaceable power supply:**
2 x 100 ~ 240 V AC, 50 ~ 60 Hertz, 300 W
- **Power consumption:**
typically 45 W / 66 VA, max. 50 W / 70 VA
- **Heat dissipation:**
max. 171 BTU/h



Operating Environment

- **Temperature TimestampServer Se Gen2-Series:**
+10°C to +50°C (+50°F to +122°F)
- **Temperature TimestampServer CSe-Series:**
+10°C to +40°C (+50°F to +104°F)
- **Relative humidity:**
10% to 95%, non-condensing
- **MTBF:** 100,000 hours at 25°C / 77°F, environment GB, GC – Ground Benign, Controlled



Non-operating/Storage Environment


- **Temperature:**
-10°C to +55°C (+14°F to +131°F)
- **Relative humidity:**
10% to 95%, non-condensing





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