

Khatim Timestamp Server

High assurance cryptographic timestamp server with market-leading performance

- ✓ Enterprise ready, secure and quick to deploy timestamp server
- ✓ Compatible with ETSI & IETF advanced digital signature standards
- ✓ Flexible, scalable timestamp server securing high valued transactions
- ✓ Generate timestamps from multiple trusted time sources (NTP servers)
- ✓ Seamlessly integrate with existing business system & Hardware secure modules



Purpose of Timestamp Server Authority

Proving time is important in high valued transactions and critical for businesses creating digital signatures for long-term perseverance. Without cryptographic timestamps, digital signatures can't be trusted as they cannot be accepted in long term. Timestamp authority (TSA) provides proof of data existence at a particular point in time using cryptography. A Timestamp Authority acts as a pivotal role ensuring all of the cryptographic objects identified during digital signature creation remains valid be it digital certificates, CRL or OCSP. This is done by embedding RFC 3161 based cryptographic timestamps inside business documents or transactions. With the emergence of eIDAS regulation, allowing cross border digital signature acceptability, TSAs have now become a corner stone in the evolving digital trust landscape.

What makes Codegic the best Timestamp Server vendor?

Built for Speed

Khatim Timestamp server is designed to provide market leading performance suited for high volume processing giving you top speeds what others don't provide. With good set of configurations, you can achieve up to 500 TPS or more.

Secured processing & auditing

High trust and assurance is important in any business. In Khatim timestamp server, all functions from timestamp creation, administration to transaction management are accomplished with military grade security.

Simplicity is the Key

Complexity creates confusion and bound to create operator mistakes. With developer and admin friendly interfaces, Khatim Timestamp server can be deployed, integrated & tested in far less time what others offer.



FAST



Secure



Quick Deploy

Key Features

Cross Platform, Diverse Deployments

Khatim timestamp server is build from ground up with platform independence hence supports Windows and Linux alike. You can deploy in different environments be it on-premise, private or public cloud, VMs or physical machines.

Proactive Alerts & Troubleshooting

In situations where timestamp server is not working as it should, Khatim timestamp server proactively notifies administrators to take immediate action. For traceability, all issues are recorded which can be pushed securely to your central logging systems e.g. Splunk, Grafana, Greylog, LogRhythm etc.

Military Grade Access Control

Ensures military grade security to your timestamp instance for all its key functions be it administration, timestamp creation, transaction logging using AES 256 encryption.

Admin Friendly

Control your timestamp server administration with shell commands. Shell commands allow admins to make their own scripts to push configurations in one go saving time to setup staging or production environments.

Serve Multiple Clients

Setup multiple policies to cater different configurations like algorithms, time sources etc. This allows serving different business applications having different timestamp needs.

Logging & Auditing

Khatim timestamp server records all incoming transactions & configuration for detailed analysis. Administrator can download and investigate request/responses on the fly, any time for troubleshooting or to check server status.

Cryptographic Agility

Keeping in view businesses having different cryptographic needs, Khatim timestamp server supports both RSA and ECDSA cryptography with SHA-256, 384 and 512 hashing algorithms.

Support any HSM & CAs

Quickly integrates with your existing HSMs over PKCS#11 e.g. Entrust nShield, Thales Luna & Protect Server, Utimaco Cryptoserver, Microsoft Azure Key Vault, AWS HSM etc. Timestamp certificates can be certified with your existing CAs for quick import and usage.

Unlimited Scalability

Khatim timestamp server can be installed as a cluster of multiple individual timestamp servers to reduce latency. Add timestamp servers at will, without stopping already running instances giving you blazing fast throughput you expect.

Standard & Compliant

Supports creation of advanced digital signatures based on IETF and ETSI standards including XAdES-T, CAdES-T, PAdES-T signatures formats. Works seamlessly with wide range of business applications to integrate cryptographic timestamping i.e. Adobe Acrobat, Microsoft Office, SignTool etc.

NTP Aware

Timestamp server can be configured to use system time either already synched with a trusted time source or NTP. Administrator can directly configure multiple NTP sources based on stratum-2 or stratum-3 to avoid single point of failure.

Algorithms

- RSA, ECDSA, PKCS#11, RFC 5280, RFC 3161

Supported CA / Languages / H/W / Database

- All flavors of Windows Server & Linux (Centos, Ubuntu, RedHat, Fedora)
- English – Other languages can be supported
- 4 GB RAM, Core i7 2.4 GHz CPU (High end machine preferred), 500 MB Hard disk
- PostgreSQL, MySQL, SQL Server

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Codegic works in the domain of PKI & Security. We specialize in Timestamping, Document Signing, Digital Signature Verification, Digital Certificates, PKI Monitoring, HSMs which help in your secure digital transformation. We utilise all the latest technologies at hand to help companies and enterprises solve complex issues that always emerge during their digital evolution journey.

Learn more at www.codegic.com

