



Digital time stamps for verifiable process documentation

Time stamp software and Hardware-Security-Module

The business process

The complexity of processes in companies and authorities is increasing from day to day. A fundamental reason for this is the growing importance of protection and replicability. Digital data, documents and log files must be safely protected against unnoticed manipulation. Responsible persons from the management must be able to see at the touch of a button whether all processes are taking place according to the guidelines and whether they are being documented fully and without any manipulation. Only in this way is it possible to ensure that irregularities are detected in time and countermeasures initiated.

Our partner

SafeNet is one of the world's leading providers



in the sector of Information Security. The company offers encryption technologies for the protection of communication, intellectual property and digital identities. Additionally, the SafeNet product portfolio includes special hardware such as the Hardware-Security-Module (HSM).

The implementation

The eTimestamp Server SP250 is a combination of specific signature software and highly secure hardware.

The software used is special time stamp software. It is possible to generate digital time stamps yourself with the aid of the software. This process is comparable to the time stamp generation in a trust center that specializes in this. The time stamp software works with high performance, i.e. a vast number of digital time stamps can be generated (>250 time stamps/second) within a very short time.



The time stamp software should not be operated on a "normal server" in order to protect it against manipulations. This is why the eTimestamp Server SP250 was designed.

The eTimestamp Server SP250 consists of a high security Hardware Security Module (HSM) and time stamp software; both are integrated together on a 19" rack-installable appliance server. Hence, Plug & Play is guaranteed when installed.



SOLUTION DESCRIPTION

Application cases

Documentation of all kinds of processes, e.g.:

- Anti-Fraud-Management (protection against cases of fraud in companies by human manipulations)
- Sarbanes-Oxley processes
- Secure storage of data on hard disks (as an alternative to jukeboxes – "worm-substitute")
- Support & maintenance documentation (e.g. in the military sector)
- Development documentation (e.g. for pharmaceutical, chemical, automotive, aeronautical & space-flight engineering industries etc.)
- Electronic incoming mail & outgoing mail stamp
- Creation of one's own time stamp services (e.g. for groups & certification services)

Performance features and functions

With high performance > 250 time stamps/second	▶	Suitable for high-volume company processes
Can be integrated centrally	▶	Risk reduction by minimizing the possibility of tampering and by reducing human errors
Format independent	▶	Can be integrated centrally - for consolidating different company processes
Highly secure and auditable (Certified in accordance with international criteria)	▶	Particularly suitable for company-critical processes
Compliant with standard (use of internationally prescribed algorithms & protocols)	▶	Can be used internationally for protecting processes
Tried and tested in practice	▶	Used at well-known international companies

