TIME**EVOLUTION**

A self-consistent Time Stamping Authority

It is a *RFC3161* and *Authenticode* Time Stamping Authority that fully satisfies the following requirements:

- Proof of existence at a given point in time.
- Integrity (tampered—backdated).
- Non repudiation.
- Strong evidence of ordering in time.

It also maintains and provides synchronization for application servers and clients with very high accuracy (1/1000 sec to UTC).

TimeEvolution holds the timestamp tokens and the logs but not the information.

Compliant to the existing laws and regulations, it enables independent external verifications.

Product evaluated ITSEC E2 High (may 2000).
http://www.imq.it/portale/index.jsp?doc=360

First TSA presented at the IETF interoperability test.
http://www.ietf.org/proceedings/01dec/slides/pkix-8/sld001.htm

Listed in the "Challenge PKI 2003" Secom/Jnsa Japan.
http://www.jnsa.org/mpki/2003

Open Source for the "OpenEvidence", EU 2002.
http://www.openevidence.org

High Available, Redundant and Load Balanced Architecture.

Secure and fast solution for any application.

No public key infrastructure is needed, even if it is fully interoperable with any PKI.

Complete, consistent, scalable and reliable solution for high value customers information.

Technical Characteristics

RFC 3161 - via HTTP and TCP

Microsoft Authenticode

Stratum 2 synchronization server

Scalability and high availability through Load Balancing

SMNP protocol for management

VRRP protocol available

Include a NIST certified time source

Can be connected up to 5 different time sources

Internal storage for Logs and Tokens

External NFS storage for Logs and Tokens

Secure procedure for automatic software updates

Internal PKI

Interoperable with any external existing Certification Authority

Automatic drift control

Absolute Time control (the time cannot be set in any way by anyone)

Automatic check for disk space and certificate expiration

Very fast response on token requests

ANDXOR
Software Evolution

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- KryptoEvolution (Secure Key Server V2)
- TimeEvolution   (Time Stamping Authority)
- DataEvolution   (Long Term Data Preservation)
- MailEvolution   (Certified Mail Server)
- eSign for FileNet (Encryption / Digital Signature for P8)
- Sign Station   (Digital Signature/Encryption Client)
- XPK Multiplatform Data Compressor