keyon

Financial services company

Long-term archiving adhering to ZertES, OEIDI, and GeBüV

Reliable and fast handling of digital signatures despite high volume

Customizable to company standards

Enterprise-ready digital signatures

Keyon's customer, a major financial services company, processes a significant amount of documents using digital signatures. To facilitate maintenance of the existing solution, the customer opted for an off-the-shelf solution with the capability to adapt to their enterprise-specific formats and a first-class service level agreement.

With true-Sign, a central digital signature service from Keyon, the digital signature process is unified, simple to use and to manage. Due to its modular structure, the solution is easy to integrate to customer specific interfaces, processes and infrastructures. It supports all popular file formats, common archive and process interfaces, common smartcards or HSMs

as well as internal and external timestamping services (TSP).

true-Sign is a powerful tool and offers extensive integration possibilities for mass signatures and long-term archiving of mass data. Several entities can be operated parallel and guarantee high performance and reliability. This increases efficiency related to workflows and archiving.

The customer

Keyon's customer is a world-leading financial services company with more than 40,000 employees, advising the world's most substantial individuals and families in all aspects of finance in over 45 countries, around the clock.

Requirement

The customer wanted to move towards an off-the-shelf solution for queue-based mass signatures and long-term archiving for mass data. One major goal was to profit from a turnkey solution, comprehensive support services, and up to date software versions, which cover the life cycle of the data formats to be signed. The solution had to be cost-effective, scalable, and highly efficient.

In addition, the product needed to be flexible enough to adapt to their enterprise-specific infrastructures, processes and data formats. They also wanted to have the flexibility to expand and add further features such as various signature formats, visible signatures, and code signing.

Electronic document recording and long-term archiving are subject to legal regulations. The solution had to adhere to the rules for long-term archiving, advanced signatures, and accounts ordinance.

Solution

Due to true-Sign's modular approach, customer-specific workflows, data formats, and company-wide processes were efficiently incorporated into the true-Sign core. Keyon could seamlessly integrate their adapted product into the customer's existing processes and infrastructure. The solution provides various interfaces over which documents are submitted for the creation and verification of digital signatures. Multiple document adaptors support all common document formats (PDF/A, XML, EDIFACT, MS Office macros, Code Signing, etc.). Different I/O adapters support all standard archive and process interfaces (SOAP, JMS - MQ, File, Java API).

Various signature adapters support all common smart cards or hardware security modules (HSM)

as well as internal and external timestamp services (RFC etc.).

Keyon also implemented technical and organizational processes to ensure the integrity and authenticity of long-term archived documents. A process triggered by an archive system can manually or periodically validate such documents. To meet the legal, regulatory, and security requirements all signature keys are securely generated and managed in a hardware security module (HSM). The user administration takes place via existing entitlement, authentication and authorization services.

In addition, the following key features have been integrated:

- Central administration

  Users and signature keys can be managed centrally and lifecycle management certificates are standardized and centralized.

- Authorized usage of keys and processes

  Access to signature keys can be restricted and controlled. In addition, each signed document can be stored for audit purposes for a certain timeframe.

- Scalable and flexible

  With the current setup, true-Sign is able to process about 370'000 signatures per hour. Due to its flexible architecture it allows to easily exceed this capacity.

- Pre-processing and Conversion

  Before documents are being signed, they can be pre-processed for various reasons (e.g. to be converted into a uniform format such as PDF/A).

- Audit trail, comprehensive monitoring

  true-Sign can be integrated into an existing security information and event management (SIEM).
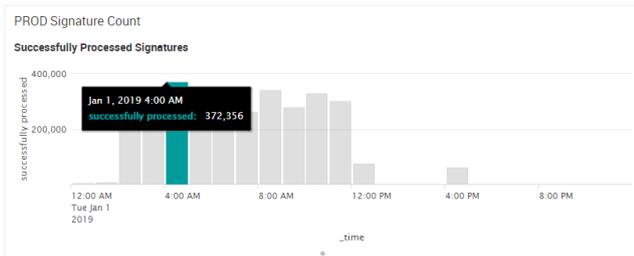
  In addition, signed documents can be uploaded for validation purposes. The validation results can be provided in human readable form, automatically processed in various systems, or stored in a central system.
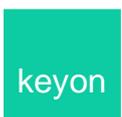
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