



SafeNet HSMs for eInvoicing

SOLUTION BRIEF

Features and Benefits

- Ensures integrity of electronic documents
- Provides non repudiation of receipt and origin
- Secures electronic tracking and storage
- Scales to accommodate high volumes of important documents
- FIPS validated and Common Criteria Certified

Powering eInvoicing systems with industry compliant hardware security modules for maximum integrity, accuracy, and security

Overview

Trust is a critical requirement for the feasibility of eDocuments. Digital signatures, powered by encryption and public key infrastructure (PKI), represent the means for establishing trust in eDocuments. Digital signatures give all parties the confidence required to trust that documents come from known entities, and that they have not been altered in transit. In turn, these digital signatures need to have foolproof, comprehensive security mechanisms to protect them: If digital signatures are in any way compromised, the entire eDocument infrastructure will be compromised. This is where hardware security modules (HSMs) come into play.

The Role of HSMs in eDocuments

Cryptographic keys are used to lock and unlock access to digitalized information. Even if the strongest encryption algorithm is used, security is still weak if cryptographic keys are not adequately secured. HSMs are dedicated systems that physically and logically secure the cryptographic keys and cryptographic processing that are at the heart of digital signatures. HSMs support the following functions:

- Life-cycle management, including key generation, distribution, rotation, storage, termination, and archival.
- Cryptographic processing, which produces the dual benefits of isolating and offloading cryptographic processing from application servers.

eDocuments are digitally signed with a secure private signing key, which requires an HSM capable of performing certificate authority management tasks. The HSM stores the keys within the secure confines of the appliance throughout the key life cycle. The HSM enables the organization to secure digitally certified documents and to cryptographically bind the identity of the certifying party to the documents. By storing cryptographic keys in a centralized, hardened device, HSMs can eliminate the risks associated with having these assets housed on disparate, poorly secured platforms. In addition, this centralization can significantly streamline security administration.

The Benefits of eDocuments with SafeNet HSMs

SafeNet offers a broad set of HSMs that are ideally suited to the demands of eDocument infrastructures. By employing SafeNet HSMs, organizations can realize a range of benefits:

Enhance Security and Ensure Compliance

SafeNet HSMs deliver sophisticated security capabilities that enable businesses to enjoy maximum security in their eDocuments implementations, ensuring optimal trust in the entire document lifecycle. SafeNet HSMs address the following critical requirements:

Certification. Many SafeNet HSMs meet the demanding requirements of FIPS and Common Criteria certification.

The Benefits of eDocuments with Safenet HSMs

Enhance Security and Ensure Compliance

- Certification
- Compliance
- Multiple signatures

Optimize Operational Performance

- Efficient retrieval, processing
- Elimination of time consuming, inefficient paper-based processes
- Improve vendor relations
- Reduced errors, reconciliation times
- Efficiency through back office integration

Reduce Cost

Compliance. SafeNet HSMs offer the robust security capabilities that ensure compliance with the European Directive on Invoicing, Brazil Nota Fiscal (NF-e), and other regulations.

Multiple signatures. With SafeNet HSMs managing digital signatures, organizations can manage multiple signatures per invoice.

Optimize Operational Performance

By leveraging SafeNet's secure HSMs in a secure eDocument deployment, organizations can realize significant gains in operational performance:

Efficient retrieval, processing. By working with electronic files, business can more quickly generate, locate, retrieve, and process important documents.

Elimination of time consuming, inefficient paper-based processes. Secure eDocument systems enable businesses to eliminate a host of manual, error-prone processes associated with the handling and distribution of paper documents.

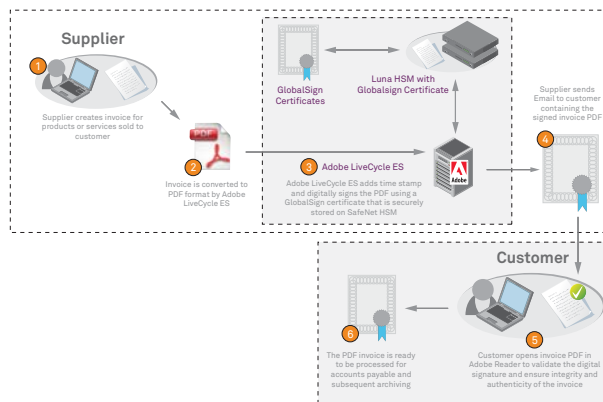
Improve relations. By ensuring trust and optimizing speed and efficiency throughout the document process, businesses can improve relationships with vendors customers, partners and other stakeholders.

Reduced errors, reconciliation times. With eInvoicing, businesses can improve accuracy in document generation and approval processes, and, in the event of questions or disputes with a given invoice, businesses can much more quickly reconcile those issues and speed payment cycles.

Efficiency through back office integration. With a secure eDocument system in place, organizations are well equipped to integrate digital invoicing process with other back-end applications, such as procurement and enterprise resource planning, which can lead to further efficiency and accuracy gains.

Reduce Cost

With SafeNet powering eDocument systems, businesses can realize an array of cost saving benefits. For example, by centralizing cryptographic keys and policy management on SafeNet HSMs, businesses can significantly reduce the administration associated with managing digital signatures in a distributed, disparate fashion. Also, by eliminating the need to do filing of paper documents, business can reduce the overhead and expense of paper document storage costs. Finally, the digitization of documents leads to significant reductions in the time and staffing costs associated with paper based document processing.



About SafeNet

Founded in 1983, SafeNet is a global leader in information security. SafeNet protects its customers' most valuable assets, including identities, transactions, communications, data and software licensing, throughout the data lifecycle. More than 25,000 customers across both commercial enterprises and government agencies and in over 100 countries trust their information security needs to SafeNet.

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