

## Secure your customers' online journey with a centralized solution for qualified electronic signatures

- Sign transactions and documents, anytime, anywhere
- Enable a pan-European compliant secured solution
- Support non-repudiation with "what you see is what you sign"
- Reduce operational costs of managing physical documents
- Provide remote Qualified Electronic Signatures



**CRYPTOMATHIC**

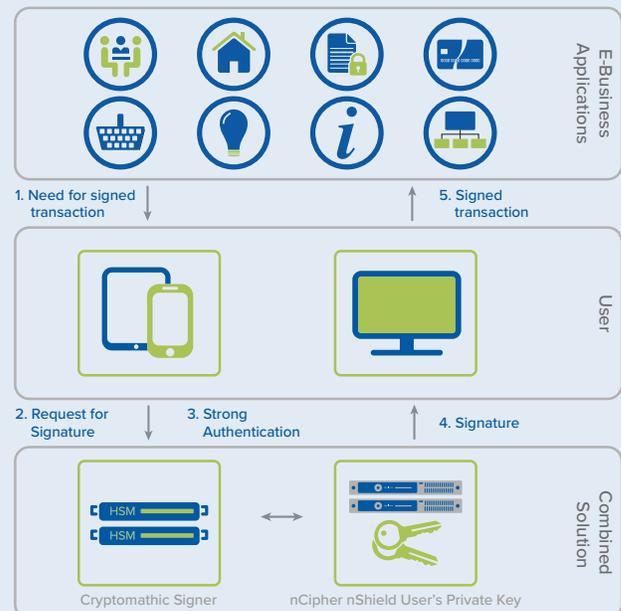
# Cryptomathic delivers qualified electronic signatures using nCipher nShield HSMs

**THE PROBLEM: ONLINE BANKING SERVICES THAT REQUIRE USERS TO PHYSICALLY SIGN LEGALLY BINDING TRANSACTIONS AND DOCUMENTS ONLY DELIVER AN INCOMPLETE DIGITAL SOLUTION.**

As you strive to deliver a complete digital journey to your online customers, being able to provide trust and convenience is critical. While most transactional aspects of online banking have now been digitized, the last step of this journey - the one where end-users provide their legally binding consent to what is presented on their connected device, has been missing from available offerings.

**THE CHALLENGE: DELIVERING A TRUSTED DIGITAL SIGNING EXPERIENCE THAT COMPLETES YOUR CUSTOMER DIGITAL JOURNEY.**

Your online customers demand solutions that allow them to do everything from any device without breaking the browser experience. Enabling them to digitally sign legally binding transactions and documents from anywhere at any time, while providing non-repudiation requires high assurance digital signature technology. In Europe, the regulation on electronic identification and trust services for electronic transactions (eIDAS) is becoming a strong enabler for business' digital transformation strategies.



nCipher nShield Connect HSM safeguards and manages the private key used by Cryptomathic Signer to deliver Qualified Electronic Signatures to online banking customers. nCipher nShield can be deployed on-premises or as a service.

# Cryptomathic delivers qualified electronic signatures using nCipher nShield HSMs

## THE SOLUTION: QUALIFIED ELECTRONIC SIGNATURES FOR HIGH ASSURANCE, AND ZERO FOOTPRINT SIGNING FOR EASE OF USE FROM ANYWHERE.

Digital signatures are the next step to providing the full digital customer journey that moves remaining offline operations and transactions completely online. To drive this technological innovation, eIDAS has provided specific requirements to which businesses must adhere in order for electronic signatures to be considered legally binding in the EU. Cryptomathic patented technology enables your business to deliver an electronic signature solution to your end-users in a centrally managed, secure, and user-friendly manner. And with zero footprint, it does not require download of an application onto the end-user's device.

Cryptomathic Signer is a remote signing solution, incorporating Cryptomathic's eIDAS certified qualified signature creation device (QSCD), which helps banks and trust centers provide large scale, legally binding digital signature services to clients and end-users. Used by banks and government departments processing millions of transactions each month across Europe, the solution combines strong security with user convenience by using "what you see is what you sign" (WYSIWYS) technology that builds and enhances consumer trust.

Cryptomathic Signer integrates with nCipher nShield Connect hardware security modules (HSMs) to protect user's private keys. Leveraging both companies' expertise in supporting evolving payments and digital ecosystem for e-banking and e-government, Cryptomathic Signer integrates smoothly with existing web banking services and does not require software install, plug in, or additional components on the client side. It can be used anywhere at any time from any device with browsing capacity. It is also virtually impossible for user's to lose their signing key, or for the key to be compromised, as it is securely stored and protected within the secure FIPS 140-2 Level 3 and Common Criteria EAL4+ certified security boundary of the nCipher nShield Connect HSM that can be deployed on-premises or as a service.

## WHY USE NCIPHER NSHIELD CONNECT WITH CRYPTOMATHIC SIGNER?

Cryptographic keys handled outside the boundary of a certified HSM are significantly more vulnerable to attack, which can lead to compromise. HSMs are the only proven and auditable way to secure valuable cryptographic material. In order to offer mobility, the user's signing key is stored centrally in the tamper resistant environment of the trust center. Cryptomathic Signer enables a direct secure connection from the user's browser to the nCipher nShield Connect HSM, where user's key are safely stored that can be deployed on-premises or as a service.

Users authenticate themselves using existing two-factor authentication in order to access and use their signing key.

nCipher nShield Connect is a high-performance network-attached HSM that delivers secure cryptographic services as a shared resource for distributed application instances and virtual machines. The solution enables appropriate levels of physical and logical controls to be enforced over server-based applications where software-based cryptography fails to meet risk management targets. nCipher nShield Connect delivers high levels of cryptographic performance, scalability, and resilience. Latest cryptographic algorithms and key management schemes makes it a future-proof solution as standards emerge especially for mobile applications. Its capability to enable development of custom code to run inside the HSM provides an indispensable tool to meet specialized customer requirements.

## NCIPHER - AN ENTRUST DATACARD COMPANY

nCipher nShield Connect HSMs provide a hardened, tamper-resistant environment for performing secure cryptographic processing, key protection, and key management. nCipher HSMs:

- Enforce key use policies, separating security functions from administrative tasks
- Interface with applications using industry-standard APIs (PKCS#11, OpenSSL, JCE, CAPI, CNG, nCore, and nShield Web Services Crypto API)
- Execute critical code inside their protected environment

nCipher nShield is available in several form-factors: as an appliance, PCIe, USB, and as a service.

## CRYPTOMATHIC

Cryptomathic Signer delivers a superior central digital signing experience to online customers across all channels, including web browsers desktop and mobile. The purpose built solution:

- Delivers eIDAS compliant Qualified Electronic Signatures
- Leverages and enhances the security of existing two-factor authentication deployments
- Applies non-repudiation for legal enforcement

For more detailed technical specifications, please visit [www.ncipher.com](http://www.ncipher.com) or [www.cryptomathic.com](http://www.cryptomathic.com)

Search: nCipherSecurity



©nCipher - September 2019 • PLB8200

[www.ncipher.com](http://www.ncipher.com)

