



**CRYPTOMATHiC**

YOUR SECURITY, OUR PRIORITY



# CRYPTOMATHiC

Cryptomathic is a global leader in data security and encryption solutions. We have been named one of the world's 40 most innovative companies by the World Economic Forum and our team consists of the world's brightest cryptographic minds.

We accelerate digital transformation by protecting valuable digital assets with the highest level of assurance. Our people are world-renowned specialists in the development and provision of solutions that encrypt and secure data, transactions and applications across a wide range of industry sectors.

Our solutions are trusted by governments, financial institutions, cloud service providers, and industry leaders around the world, to address security challenges in risk and compliance, cryptographic-agility and adaptive security.



**Laurent Lafargue**

**Global CEO**

**"Staying at the forefront of digital security for over 35 years is a testament to the expertise and excellence of everybody within Cryptomathic. Our priority has always been to help our customers overcome complex security challenges, reduce their compliance burdens and create the freedom needed for growth. We look forward to helping you too!"**



**We get it: safeguarding sensitive data is complex. You don't want to master mathematical algorithms. You want, simply: security.**

That's why our people have relentlessly honed and refined pioneering tools that organizations use to keep information secure

This includes mobile app protection, cryptographic key management, digital identity security and e-signatures.



## **UNIQUE MARKET SOLUTIONS**

We understand that your business is unique and has specific needs. As a result, all our products are designed and built based on users' needs and requirements that helps you to protect and expand your business.



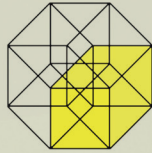
## **UNRIVALED TECHNICAL EXPERTISE**

We bring together over 35 years of cutting-edge technical expertise with unrivaled market knowledge to provide the right balance between usability and the best available protection.



## **CUSTOMERS COME FIRST**

We are known for an unbeatable combination of strong customization capabilities, world-leading security measures, ease of use, and reliability. As a trusted provider of security solutions, many repeat customers continue to recommend us in the future.



## KEY MANAGEMENT

# COMPLETE CONTROL OF YOUR CRYPTOGRAPHIC KEYS

Whether you're operating in a highly regulated environment, or within lesser or self-regulated industries, key management is crucial to safe and secure business today.

Less-regulated industries are encountering key management for the first time, adopting technologies and practices to provide protection in an increasingly digital world.

Meanwhile, highly regulated organisations are used to meeting stricter compliance requirements but now face challenges of scale:

- Costs of HSMs are high
- Utilisation is low
- Integrations can be difficult

As the volume of keys increases, such organisations are finding it harder to ensure certification and prove compliance with security standards.

With Cryptomathic, large organisations can achieve multi-millions of annual savings, gain crypto agility and ease compliance.



## CrystalKey 360

CrystalKey 360 is a key management platform for all organizations needing to manage keys and demonstrate security compliance. It makes data security easy to use and empowers you to keep pace with regulation, cyberthreats and quantum computing power.

The all-in-one platform makes it easy to manage policies, algorithms, keys, logging, governance across HSMs, secure cloud enclaves, cloud key stores, and applications. It is one system that brings everything together to vastly improve operational costs and efficiencies.

### **CrystalKey 360 benefits:**

- A single platform providing key lifecycle management and Crypto-as-a-Service (CaaS)
- Easily deployed and scaled to effortlessly deliver agile cryptography from the smallest of applications to the entire enterprise
- Solves 50+ common cryptographic challenges, including data integrity and encryption, tokenization, transaction authorization, code signing and key lifecycle management
- Acts as a control center for HSM services and policy management
- Enforces specific roles and clear responsibilities for sets of keys
- Frees staff from manual, repetitive tasks and enables teams to concentrate on policy decisions
- Orchestrates delivery of keys between disparate systems and across multiple regions
- Support for fully automated workflows and integration with certificate authorities (CAs) or Certificate Lifecycle Management (CLM)
- Delivers huge cost and time savings by doing cryptography the right way



## **DIGITAL IDENTITIES & SIGNATURES**

# **CREATE BEAUTIFUL DIGITAL EXPERIENCES BUILT ON TRUST**

Secure the complete online customer journey with Cryptomathic Signer.

We created this pioneering digital signature solution to make it easy for you to deliver on your digitization strategy, giving consumers freedom to sign transactions, documents or data online:

- Create digitally signed documents that carry the same legal value as a handwritten one, by using Qualified Electronic Signatures
- Guarantee non-repudiation by confirming the origin and authenticity of signatures
- Keep signatures safe inside tamper-resistant environments

Did you know information can be hidden within PDFs? To counter this, we take inspiration from the art world, securely rendering documents to users as an image of exactly what they are signing. The result is a digitally stamped, irrefutable legal proof of agreement you can trust.

We enable you to simplify compliance audits with technology certified at the highest level

- Establish strong foundations for growth, with future-proofed technologies compliant with eIDAS and other national regulations
- When certificates are no longer valid, instantly render cryptographic keys unusable

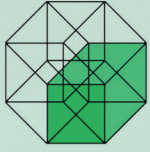


Cryptomathic Signer is a remote digital signature solution that empowers global businesses to offer smooth and secure digital signing experiences to their clients. Powering Signer is Cryptomathic's certified Qualified Signature Creation Device (QSCD), which ensures that you never need to worry about complex technical and legal standards of digital signatures. We take care of this for you.

Signer is suitable for completing all forms of legal documents and agreements. It is the solution of choice for organisations that need a highly versatile, non-repudiable and legally binding digital signature service. We make it simple for you to unlock convenient, secure and scalable digital experiences, supported by Advanced Electronic Signatures (AdES) and Qualified Electronic Signatures (QES) so you can operate with confidence across markets.

## WHY ORGANISATIONS CHOOSE SIGNER

- Create legally binding digital signatures that are recognized across borders
- A premium user experience (UX) for your customers without sacrificing legal certainty
- Meet compliance requirements with eIDAS and other national regulations
- Securely store and move sensitive private data
- Improve customer experience with rapid onboarding, anytime, anywhere
- Reduce operational costs and streamline process
- Receive support from digital security experts
- Simplify auditing with strong audit and logging trails
- A great developer experience with an API your developers will love



## **PAYMENTS**

# **PUTTING SECURITY AT THE HEART OF GLOBAL PAYMENTS**

We're the guys that enable you to receive a ready-to-use payment card from your bank, or to securely change your PIN in your mobile app. For over two decades we've helped stakeholders fulfill compliance obligations and preserve reputations for issuers, acquirers, card personalisation bureaus, payment service providers, processors and payment schemes.

Hundreds of millions EMV<sup>®</sup> Chip cards are issued annually with data generated by Cryptomathic solutions. You can securely generate data for over 180,000 bank cards every hour with Cryptomathic. 2000 financial institutions globally trust us to secure their EMV<sup>®</sup> card data, including Barclays, S2M and Swedbank.

**FULFILL COMPLIANCE OBLIGATIONS AND  
PREVENT REPUTATIONAL DAMAGE BY  
PROTECTING AGAINST SYSTEMATIC ATTACKS**





We deliver solutions that support all aspects of the payment ecosystem: from card issuance, to transaction processing and PIN management. Our carefully-crafted payment solutions sit at the heart of the global payment infrastructure:



## **CARD ISSUANCE AND MANAGEMENT**

Efficiently issue and manage EMV cards and other smartcards with applications such as transit, eID and healthcare.



## **EMV CERTIFICATE AUTHORITY**

Painlessly provide payment alternatives as part of local domestic schemes.



## **PIN MANAGEMENT**

Effortlessly enable secure PIN creation and empower easy changes after issuance.



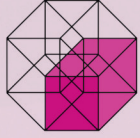
## **TRANSACTION PROCESSING**

Easily add PCI-compliant, feature-rich EMV<sup>®</sup> capability, as well as risk management and cryptographic security, to mag-stripe systems, or switch without extensive modifications or expensive upgrades.



## **E-WALLET AND MOBILE PAYMENT SECURITY**

Bring higher confidence in e-Wallet and mobile payment application security using Cryptomathic Mobile Application Security Core (MASC) technology. Enhance and monitor the security of your applications.



**MOBILE APP  
SECURITY**

## **THE PRIMARY LINE OF DEFENSE FOR MOBILE APPS**

Mobile devices handle huge amounts of increasingly sensitive data, which means apps delivering banking, mobile wallet, healthcare, ID services and more simply cannot afford to be broken.

In over ten years of providing a secure mobile core SDK, we have protected over 100 million+ apps, with NO recorded incidents. It's no wonder that frustrated hackers have described our protection as 'watertight'!

We're cryptographic experts constantly studying attacks of a quantum nature, helping you manage secrets so that not even your developers can access them.

We don't just provide a wrap-around shield, or an add-on; our mobile protection gives you true in-app security based on multiple interlocking layers that help you comply with regulations and keep data secure.



# WHY DO LEADING CISOs TRUST CRYPTOMATHIC FOR MOBILE APP PROTECTION?

We provide the highest levels of security. Our solutions constantly undergo extensive penetration (PEN) testing to achieve certification and ensure we:

- Remain current with the latest types of attack
- Understand app vulnerabilities
- Help mitigate app security risks

This provides you with a fast-track to compliance with regulations including:

- ENISA Smartphone Guidelines
- OWASP Mobile Application Security
- PCI MPoC Standards

Developers can focus on their app's user experience and business logic and we take care of the security. Exposure areas are consequently limited making life easier for security architects and compliance officers.

## WHY DOES THIS MATTER?

Native mobile apps provide a superior user experience but escape your control once downloaded, opening possibilities for exploitation.

If you work in highly regulated sectors, your apps will contain financial, health, personal or similarly sensitive data. Off-the-shelf vendor solutions are not enough and breaches don't just threaten to halt your revenue streams, they can destroy your reputation and lose you customers.

The result? Multi-layered, trusted security that protects the integrity of apps, constantly watching for any potential threats, enabling proactive action and ensuring advanced security mechanisms cannot be cheated.



Cryptomathic is a global leader in safeguarding data via cryptographic security and encryption solutions. Our expertise ensures the utmost confidence not only in crypto-agility for key management but also in shielding mobile applications and facilitating remote Qualified Electronic Signatures.

We specialize in developing and delivering cryptography-centric solutions designed to encrypt and fortify data, transactions, and applications across a wide range of industries.. Our comprehensive suite of solutions tackles security concerns linked with digital transformation, risk and compliance, while also addressing the needs for crypto-agility and adaptable security measures.

## GET IN TOUCH



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



[enquiry@cryptomathic.com](mailto:enquiry@cryptomathic.com)



+45 8676 2288