

To discuss your data security requirements, please contact

CyberTech
011 879 5700
www.cybertechsa.com



GENERAL PURPOSE DATA ENCRYPTION

Bring trust, integrity and control to business information.

Today's fast moving digital environment offers opportunities to enhance customer satisfaction, improve operational efficiency and gain competitive advantage, but in doing so also raises new security challenges. Our market-leading solutions and services allow organisations to keep pace with innovation while protecting their business' critical assets from security breaches. The world's leading organisation trusts Hardware Security Modules

(HSMs) to provide a root of trust for their PKI based environments critical applications and meet their data protection needs. Organisations are also now subject to an increasing number of strict compliance mandates such as the EU General Data Protection (GDPR) and Protection of Personal Information (POPI). Our solutions provide the highest level of assurance in protecting sensitive data and enabling organisations to meet these very stringent compliance controls.

A root of trust for business applications

Organisations rely on our industry leading HSMs to provide a root of trust for a wide variety of business applications including public key infrastructure creates greater demand for device ID's and certificates, HSMs will continue to support critical security measures such as device (PKI's), SSL/TLS encryption key protection, code signing and blockchain. As growth in the Internet of Things (IoT) authentication using digital certificates.



PKI Applications

Today's information systems are highly integrated and automated.

- Blockchain root of trust
- Code signing
- Digital signatures
- PKI and digital certificates
- Strong authentication
- Time stamping
- IoT / Device credentialing
- DNSSEC



Data Security through Encryption

Address key security objectives and compliance mandates.

- Database Security
- Application-Level Encryption
- Big Data Encryption
- SSL/TKS Encryption
- Tokenization



Payments

Attend to today's payments industry security challenges, wherever payment data is created.

- Host Card Emulation
- mPOS
- Point-to-Point Encryption

World Class, Trusted Solutions...

- Exceptional technology supported by 32 patents
- More than 15 years cryptography and security experience
- 20-year heritage providing market-leading general purpose HSMs
- Global network of strategic technology partners and distributors

Cryptography as a Service (CaaS)

Instant Crypto services without the pain of buying expensive hardware.

- ✓ **Availability** to services 24/7
- ✓ **Strong** Authentication
- ✓ **FIPS 140-2** Level 3 certified cryptographic hardware platforms
- ✓ **Encryption** key management
- ✓ **Instant** encryption data
- ✓ **Fast** set-up time
- ✓ **Cost, resource and time** saving
- ✓ **Easy** developer interface for development purposes

Hosting as a Service (HSM)

Hosting and management of your crypto hardware in our Tier 4 data centre.

- **Cost** and resource saving
- **24/7/365** monitoring
- **On-site** engineering
- **Dual powered** supplies
- **PCI** compliant rack installation
- **Secure**, controlled access of the data centre
- **Remote** management of cryptographic hardware



With CyberTech you can expect...

✓ **Compliance support** for varied regulations & industry standards, incl. GDPR, PoPI, FIPS, PCI, SOX, HIP AA & various ISO's. We have extensive expertise in compliance in order to help you navigate the complexity of mandates

✓ **Great value with zero capital investment**, transparent flat-rate pricing and long-term reduced predictable costs. You can expect smooth and simple integration and on-boarding to ensure speed and effectiveness of set-up.

✓ **Highly secure, highly available data centre** where you can safely host your crypto hardware, or make use of our services to provide you with an easily integrated crypto solution.



Round the Clock Support

24/7/365 support from our award-winning global SOC in South Africa, running leading security and cryptographic technologies operated by highly skilled accredited security professionals. Our SOC facility is PCI; ISO 27001 and VISA accredited.



Experienced Security Engineers

Learn from our first-hand experience. We have decades of combined experience. Consider us part of your extended team. We offer seamless integration to your service desk & ticketing system.



Specialist Skills

Your team is already stretched to its limits, balancing the challenges stemming from the need for a broad range of general skills with the requirement for specialist skills. CyberTech can be your specialist. We can monitor your crypto environment around the clock.



Expert Advice

Receive expert advice in managing configurations, changes and migrations. We can co-ordinate change windows out-of-hours and across different time zones.

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SMARTCARD DATA ENRICHMENT

Personalisation Preparation Process.

The rapid increase in electronic payment methods and contactless smart cards continue to drive growth in that market and the need for personalisation, preparation and testing of these smartcards and IOT devices. CyberTech is a managed cyber security service provider, with over 15 years' experience providing cryptographic services in many African countries, as well as Europe. It employs highly skilled, certified cryptographic engineers who assist clients in their transactional and

information security transformation journey within various sectors, including the financial services sector, public sector, retail and telecommunications industries. Our solution provides organisations with a simple, low-cost EMV data preparation solution for issuers to migrate from magnetic stripe cards to EMV smart cards. All the EMV card keys and data required for the various card association applications are created and managed in-house by the issuer in a range of output formats, delivering flexibility in choosing one or more bureaus for the card personalisation process.



Control your master keys

P3 is a turnkey solution comprising of a Windows-based application and a FIPS 140-2 Level 3 approved hardware security module (HSM). It provides a simple low cost EMV data preparation solution for issuers to migrate from magnetic stripe cards to EMV smart cards. All the EMV card keys and data required for the various card association applications are created and managed in-house by the issuer in a range of output formats, delivering flexibility in choosing one or more bureaus for the card personalisation process.



Business Impact

Maximise security by retaining control of master keys

- Supports all major open standard and proprietary cards- kept up to date with new versions of applications and cards
- P3 preparation solution is front and back-end agnostic - it works with all popular CMS and personalisation systems' cards.
- Users can do everything in-house or shop-around for the lowest cost production bureaus.
- Mastercard, VISA, American Express, JCB, Discover and UnionPay.



Key Benefits

- ✓ **Delivers 100% in-house control** over cryptographic keys
- ✓ **Supports all major card association** payment applications
- ✓ **Generates keys and EMV parameters** from existing magnetic stripe files
- ✓ **Supports instant issuance** and on-demand replacement cards
- ✓ **RSA key generation** with key caching
- ✓ **Flexible output format** to support personalisation of MULTOS

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