



**SECURING THE
GLOBAL DIGITAL
EXPERIENCE**

ABOUT

V-Key is an internationally-acclaimed software-based digital security company, headquartered in Singapore, founded in 2011. V-Key's pioneering mobile technology powers ultra-high-security solutions for mobile identity, authentication, authorization, and payments for major banks, payment gateways, and government agencies.

**COMPANY
FACT SHEET**

KEY TECHNOLOGIES

V-Key is the inventor of V-OS, the world's first and only true patented virtual secure element that uses advanced cryptographic and cybersecurity protections to comply with standards previously reserved only for expensive hardware solutions. V-OS' tamper-resistant design allows for the secure storage of cryptographic keys, data and application codes. The multi-layered security features of V-OS allows it to serve as the core security foundation on which a multitude of use cases can be built- Digital-only Bank, National Digital Identity, Digital Token, Smart Nation, Card-less ATM withdrawals, and Mobile Document Signing.

INTERNATIONALLY PATENTED IN THE USA, SINGAPORE, AUSTRALIA, CHINA, AND EUROPE.

COUNTRY	PATENT NUMBER
Singapore	2012000429
United States	9054865
Australia	2012337403
China	CN103988467B
Europe	EP2795829A4

GLOBAL FOOTPRINT

V-Key has a strong presence in the Asia Pacific region and collaborates with various technology companies to offer its mobile security solutions to businesses and organizations in other countries in Asia, the Middle East and Europe

Singapore	U.A.E	Australia
China	Saudi Arabia	New Zealand
Japan	Kuwait	Poland
India	Qatar	U.S.A
Indonesia		U.K.
Malaysia		Spain
Philippines		Slovakia
Thailand		
Vietnam		



20
COUNTRIES

200
APPS

251M
DEVICES



V-OS BIOMETRIC IDENTITIES

V-OS Face Biometrics and eKYC is a secure end-to-end solution to quickly and accurately verify customers' identities and securely onboard them to your app or platform. It is also built on V-Key's military-grade V-OS to ensure that trust is maintained every step of the way.

[Learn more](#)



V-OS VIRTUAL SECURE ELEMENT

V-OS is V-Key's core patented technology: a virtual secure element. It is a secure sandbox that is embedded within a native iOS or Android mobile app, and creates a safe operating environment where data can be stored and cryptographic processes can be executed in isolation from the rest of the mobile app.

[Learn more](#)



V-OS MOBILE SMART TOKEN

A versatile, cost-effective, and highly secure second-factor authentication and authorization solution on mobile devices, an alternative to traditional hardware OTP tokens and OTP delivered via SMS. Soft tokens are able to adapt and keep the balance of user experience and security.

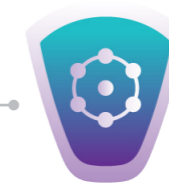
[Learn more](#)



V-OS MOBILE APP PROTECTION

Protects your mobile applications running on Android, iOS and HarmonyOS from malware threats. It features rooted and jailbreak detection mechanisms that can allow your mobile app to run smoothly -- without compromising its integrity and confidentiality, and without breaking security or leaking any sensitive information stored within the app.

[Learn more](#)



V-KEY ID

A portable universal digital identity that uses your face to provide a privacy-protecting biometric key to unify all your ID needs. Built on the powerful V-OS, the world's first Virtual Secure Element to be FIPS validated, achieve FIDO security targets, and be Common Criteria EAL3+ certified, it provides unparalleled security for your user's Face biometrics keys and transactions.

[Learn more](#)

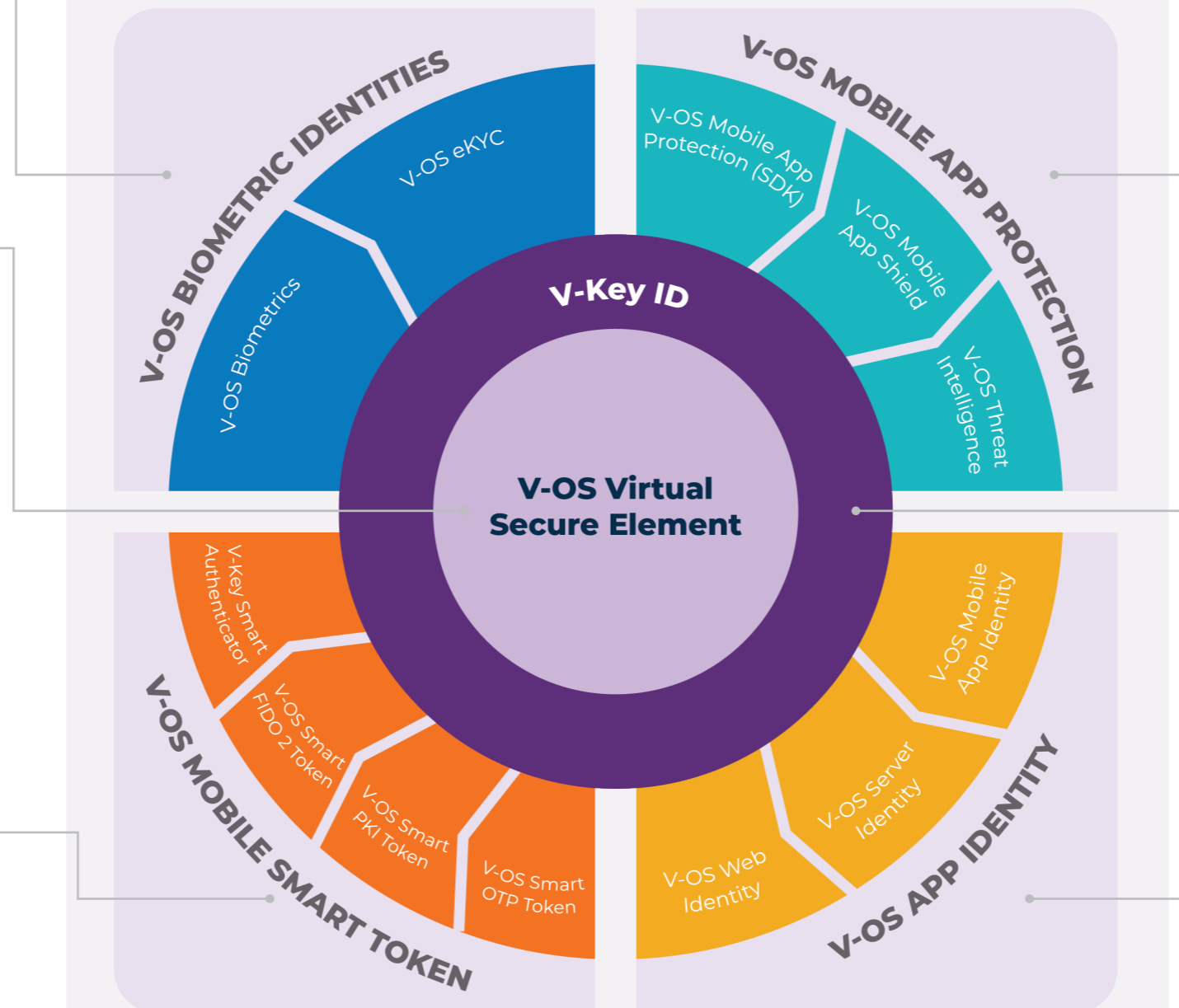


V-OS APP IDENTITY

The rise of digital transactions has placed smartphones at the centre of an omni-channel user experience. Build trust between your family of apps with V-OS APP Identity which creates an app-based secure element bound to each app to ensure its true identity and integrity.

[Learn more](#)

OUR SOLUTIONS



V-Key believes that software security is as secure, if not more secure, than traditional hardware security. With the patented Virtual Secure Element (VSE) at the core, we architected and developed all our V-OS product offerings to be like a hardware encryptor to provide military-grade protection for mobile apps.

Traditional tamper-protection relies on techniques such as code obfuscation, white-box cryptography, and anti-tampering / anti-debugging mechanisms. V-Key tightly integrates these best-of-breed techniques into the V-OS virtual machine to create a threat-aware protection system.

V-OS Virtual Secure Element has been internationally patented in the USA, Singapore, Australia, China, and Europe.

V-OS Virtual Secure Element has been accredited by the Infocomm Media Development Authority of Singapore (IMDA), the technology

development and regulation statutory board of the Singapore government.

V-OS Virtual Secure Element is designed to meet security requirements for FIPS 140-3 Level 3 and Common Criteria EAL3+.

V-OS Virtual Secure Element's cybersecurity resiliency is unquestionable and has never been broken in multiple security penetration tests.

Our solutions have undergone multiple vulnerability assessment exercises held by local and overseas independent professional penetration testing entities, engaged by our customers during the evaluation processes. While other competitive solution failed within a couple of days, V-Key withstood these attempts even after weeks of determined attacks – challenging security standards previously held by hardware tokens.

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