PKWARE®

PKWARE Smart Encryption Platform™

With your data security strategy, find ways to:

> Avoid Complexity

> Reduce Cost

> Nullify Threats

PKWARE®

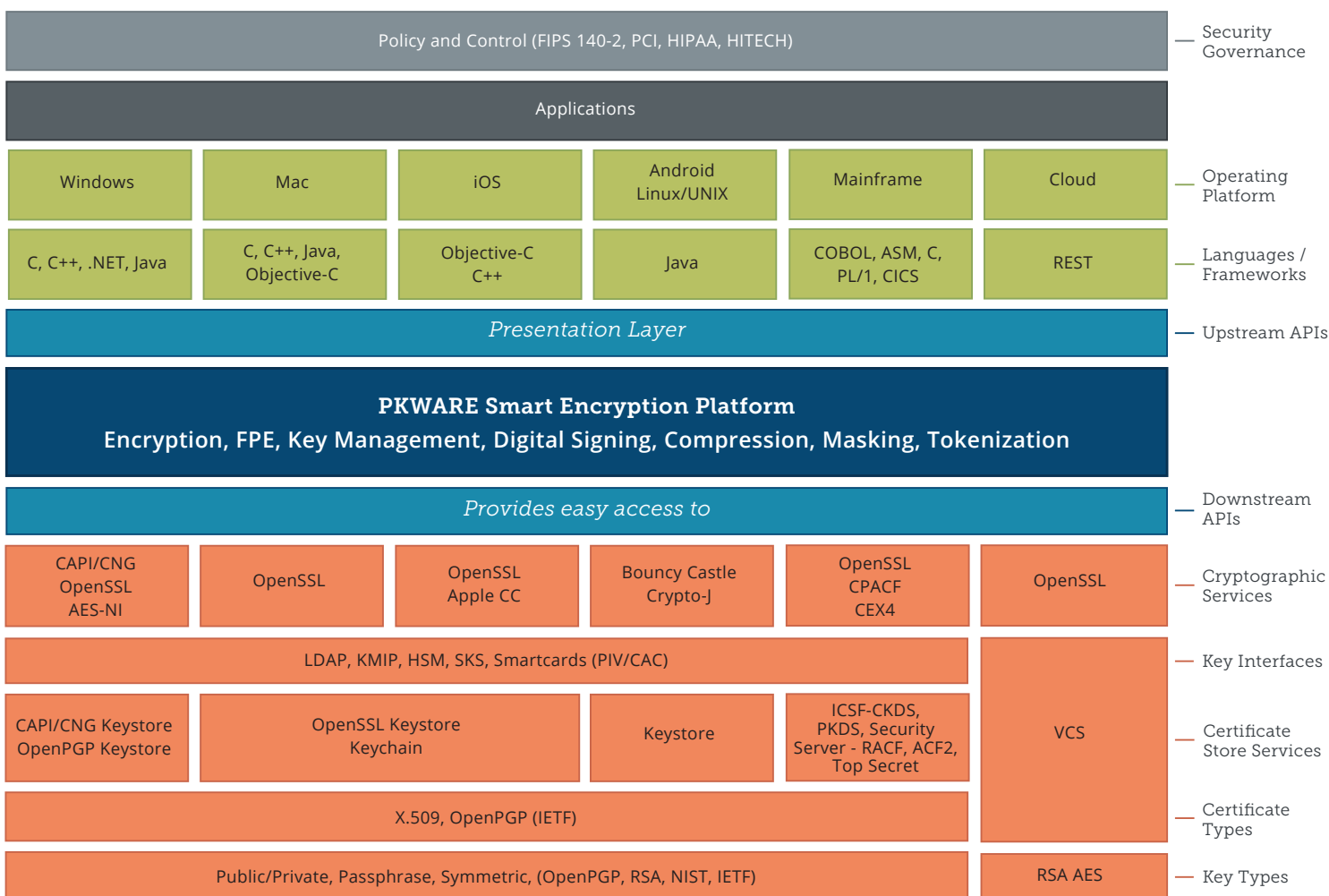# The PKWARE Smart Encryption Platform™

PROTECTION FOR DATA ACROSS EVERY LAYER OF THE ENTERPRISE

Enterprise data security today means adding defense-in-depth, layers of security that protect data at its core as well as across physical infrastructure (i.e. networks, servers, endpoints). Armoring data is what PKWARE is all about. PKWARE is a trusted name with nearly 30 years in encryption, digital signing and authentication, and performance-based compression. The PKWARE Smart Encryption Platform™ is an **open architecture** security platform that helps organizations reduce the impact of a breach, meet corporate compliance goals, and avoid application development complexity.

Smart Encryption from PKWARE is 100% standards based and integrates the most vetted cryptographic technologies available to support both structured and unstructured data. The Smart Encryption Platform integrates with all commonly used key service layers, stores and types to keep in place investments in existing infrastructure and policies.

This means faster deployment, lower total cost of ownership and support for all your existing security investments.

SECURITY THAT WORKS WITH ALL ASPECTS OF YOUR INFRASTRUCTURE

Policy and Control (FIPS 140-2, PCI, HIPAA, HITECH)						Security Governance
Applications						
Windows	Mac	iOS	Android Linux/UNIX	Mainframe	Cloud	Operating Platform
C, C++, .NET, Java	C, C++, Java, Objective-C	Objective-C C++	Java	COBOL, ASM, C, PL/1, CICS	REST	Languages / Frameworks
Presentation Layer						Upstream APIs
PKWARE Smart Encryption Platform **Encryption, FPE, Key Management, Digital Signing, Compression, Masking, Tokenization**						
Provides easy access to						Downstream APIs
CAPI/CNG OpenSSL AES-NI	OpenSSL	OpenSSL Apple CC	Bouncy Castle Crypto-J	OpenSSL CPACF CEX4	OpenSSL	Cryptographic Services
LDAP, KMIP, HSM, SKS, Smartcards (PIV/CAC)					VCS	Key Interfaces
CAPI/CNG Keystore OpenPGP Keystore	OpenSSL Keystore Keychain		Keystore	ICSF-CKDS, PKDS, Security Server - RACF, ACF2, Top Secret	VCS	Certificate Store Services
X.509, OpenPGP (IETF)					VCS	Certificate Types
Public/Private, Passphrase, Symmetric, (OpenPGP, RSA, NIST, IETF)					RSA AES	Key Types

HERE IS WHAT THE PKWARE SMART ENCRYPTION PLATFORM CAN DO FOR YOU:

Embedded Application Development

Use proven, readily available APIs to quickly embed strong security (encryption/decryption, digital signing/authentication) into applications while avoiding the complexity of creating crypto libraries or juggling key management.

Data Integrity

Digitally sign and authenticate transactions with technology that slips into your existing environment at any node in the workflow to provide multi-level, ad hoc query interrogation for authenticity, non-repudiation and integrity validation. This is ideal as a means to prevent payment fraud and meet compliance requirements. Encryption and compression can be incorporated as needed.

Database Security

Encrypt selected sensitive fields without having to encrypt the entire database with field level, length preserving encryption (FPE) for structured data on all platforms, from mainframe to distributed systems. Simple encrypt/decrypt API access makes development easy with all major languages and includes support for most structured database development environments including C/C++, Objective-C, Java, .NET, COBOL, Assembler, and PL/1.

Secure Data Exchange

Securely exchange data with external partners using a hub-and-spoke architecture. Partners can have any hardware platform. For example, secure data exchange can happen between the mainframe, Linux servers and Windows® desktops.

Encrypt/Decrypt for Email Exchange and DLP

Benefit from full policy support for at-source encryption while allowing administrators and your DLP systems to decrypt, examine and certify compliance of all outgoing files whether through an email gateway or via HTTP/FTP.

Desktop/Mobile Integrity Management, Encryption and Compression

PKWARE SecureZIP for the desktop and mobile computing is built using the Smart Encryption Platform. That means your end user data is compatible with, and supported by, the same security functionality across the entire enterprise. This includes digital signing, authentication, encryption and compression.

Encryption for Safe Cloud Computing/BYOD

Encrypt user files with a complete cross-platform system before they go to the cloud with the Smart Encryption Platform's Viivo client. Full support for file sync and share using existing private or public cloud services minimizes disruption to user workflow.

Big Data, Data Migration and Archiving

Capture metadata when compressing and encrypting data using the cross-platform .ZIP or OpenPGP format— and relocate it to any other hardware platform—at any time. Data stored on one platform like the mainframe, for example, can be opened on another, like a server, desktop or mobile device.

Compliance for PCI DSS, HIPAA and HITECH

Smart Encryption supports compliance benchmarks for multiple industry regulations. Cover authentication and encryption for application development or remediation at the file or field level for structured or unstructured data.

Government Compliance—FIPS 140-2

FIPS 140-2 validated cryptographic modules secure the data itself rather than the storage device, guaranteeing FIPS 140-2 compliance across files and in databases.

Thieves, snoops and idiots exploit gaps in enterprise information security every day. PKWARE's Smart Encryption armors data, eliminating vulnerabilities everywhere data is used, shared or stored. Smart Encryption is easily embedded and managed without changing the way people work. Integrated across all enterprise systems, platforms and languages, Smart Encryption fortifies information security inside and outside the organization. For nearly three decades, PKWARE has provided encryption and compression software to more than 30,000 enterprise customers, 200 government entities and 6 billion users around the world. PKWARE invented .ZIP, the world's most widely used file-based open standard.

ENTERPRISE DATA CENTER INFRASTRUCTURE

IBM® SYSTEM z® / LINUX FOR z	VMWARE®
IBM i	HP UX (INTEGRITY)
IBM PURESYSTEMS	ORACLE SOLARIS
IBM POWER SYSTEMS	LINUX (REDHAT, SUSE)
IBM AIX®	X86 SERVERS (IBM X, WINDOWS, PROLIANT)

SMALL-PLATFORM, CLOUD & MOBILE INFRASTRUCTURE

WINDOWS DESKTOPS	iOS
MAC®	ANDROID®

PKWARE®

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