FUTUREX

AN INNOVATIVE LEADER IN DATA ENCRYPTION SECURITY SOLUTIONS

Solutions At-A-Glance

For over 30 years, Futurex has been a leading global provider of cryptographic solutions. Our comprehensive Hardened Enterprise Security Platform, alongside the custom functionality and development offered by our results-oriented engineering culture, is designed to not only protect your data and systems, but also remain on the cutting edge of innovation, regulatory standards, and technology while doing so.

Excrypt Hardware Security Modules (HSM)

All Futurex HSMs incorporate the highest possible functionality and compliance standards. Designed to comply with ANSI, ISO, FIPS 140-2 Level 3, and PCI-HSM standards, our solutions allow organizations to remain confident that all regulatory standards, both current and emerging, will be followed.

Dual, redundant power supplies, smart card readers, and the scalable architecture required to increase capacity within a single device over time are included with all Futurex HSMs.

Excrypt SSP9000

The Excrypt SSP9000 is a secure, robust, and cost-effective hardware security module, customizable to provide a versatile, compliant data encryption solution to organizations of virtually any size. The Excrypt SSP9000 operates at up to 2,250 transactions per second (TPS) and is available in different speed configurations for organizations with a range of transaction volumes.

Excrypt SSP9000 Enterprise

The Excrypt SSP9000 Enterprise is an advanced hardware security module capable of supporting multiple independent encryption processors. This allows for logical separation of Master Keys along with scalability to process up to 8,000 TPS. This model contains advanced disaster recovery, monitoring, alerting, and redundancy features, including load balancing and dual, redundant, hot-swappable power supplies.

Excrypt SSP Series - Common Features:

• ATM remote key loading via RSA • syslog support • support for all major host applications • GUI-based configuration and management • remote configuration capabilities • 3DES, TR-31, RSA, EMV issuing and acquiring, AES, Master/Session • full payment processing functionality • custom development for organizations requiring additional functionality

Hardware Security Modules (Continued)

ESM1000

The ESM1000 Endpoint Security Module is a portable, embeddable HSM that can be used in a wide variety of environments with an included Secure Code Environment for storage and execution of custom applications. Capable of processing transactions at speeds of up to 2,250 transactions per second, the ESM1000 provides high speed throughput in a secure, portable form factor to fulfill size, weight, and power (SWaP) requirements.

Centralized Management

Guardian9000

The Guardian9000 monitors and protects your organization's Futurex device network through centralized configuration, monitoring, auditing, and load balancing capabilities. The Guardian9000 is equipped with customized alerting via SMTP, SNMP, and SMS and allows centralized device configuration, updating, log auditing, and key loading.

Key and Certificate Management Servers

KMES Series

The KMES Series Key Management Enterprise Server is a scalable, versatile, and secure solution for managing large volumes of keys, certificates, and other cryptographic objects. The KMES Series supports all major key types, algorithms, and protocols, including those required to function as a turnkey EMV certificate authority. Full key and certificate lifecycle management capabilities are included, along with a robust host API for programmatic automation of repetitive tasks.

RKMS Series

The RKMS Series securely generates, stores, distributes, and injects encryption keys into remote POS and ATM networks. The base RKMS Series unit includes support for one manufacturer, but more licenses can be purchased as needed. The RKMS Series supports devices from most major Point of Sale and ATM manufacturers.

SKI9000

The SKI9000 is a GUI-based direct key injection solution that securely injects encryption keys into POS terminals from all major manufacturers with a simple click of a mouse. The device provides the base functionality of injecting 3DES DUKPT, and Master/Session keys into four POS terminals at one time, with the scalability to add capacity for injecting up to sixteen POS terminals at once. The SKI9000 also contains disaster recovery and redundancy features, including dual, redundant, hot-swappable power supplies and support for injection of smart card and USB-based terminals.

Manufacturer-Class Device Activation Server

The Manufacturer-Class Device Activation Server is complete solution for the activation, management, and feature enabling of remote devices. Features, licenses, and upgrades can be securely authorized from a central location, significantly reducing field service costs.

Secure Storage

SAS9000

The SAS9000 provides a solution for high volume data encryption and storage. The device contains ten hot-swappable drive bays and is capable of storing objects generated by Futurex solutions as well as arbitrary data such as user information, device serial numbers, medical records, and system logs.

By integrating the SAS9000 with Futurex solutions such as the KMES Series to store objects such as keys and certificates, , virtually limitless scalability can be achieved.

SSL/TLS Line Encryption

Kryptos TLS Server

The Kryptos TLS Server provides the functionality to transmit TLS-encrypted data over an Ethernet connection. The device accepts any data that can be transmitted via a socket-based connection and performs all encryption using FIPS 140-2 Level 3-validated hardware.

Remote Management

Securus

The Securus is a handheld, touch screen-based remote configuration and management platform that functions as a compliant key loading device. For organizations with off-site data encryption hardware, the Securus significantly reduces the cost and inconvenience associated with device management. Using PKI-based authentication, all configuration details, including Master Key loading, may be completed from a remote location.

CryptoCube

CryptoCube is a consolidated, fully customized, physically secured enclosure for all aspects of an organization's core cryptographic infrastructure. CryptoCube includes a FIPS 140-2 Level 3-validated hardware security module within the door of the unit itself, enabling compliant authentication fulfilling principles of dual control along with biometric authentication.

Contained within CryptoCube is a full complement of Hardened Enterprise Security Platform solutions, customized to each organization's specific needs. Each component is designed for interoperability, scalability, and functional expansion over time. This ensures that CryptoCube grows alongside organizational requirements for cryptographic protection of sensitive data.

Customization -- CryptoCube can contain a completely customized mix of Futurex Hardened Enterprise Security Platform solutions and is available in two different rackmount sizes (24U, 48U).

Access controls -- CryptoCube is outfitted with a dual, electromagnetic locking mechanism, smart card reader, and biometric reader for robust, multifactor authentication.

Integrated LCD screeen -- All Futurex devices within CryptoCube can be monitored and accessed through the easy-to-use LCD screen touchpad.

Performance and environmental monitoring -- Environmental sensors within CryptoCube provide active monitoring to ensure optimum functionality. Performance metrics such as CPU usage and transaction processing throughput for all devices contained within CryptoCube are available directly to authenticated users via the front panel display.

VirtuCrypt - Hardened Enterprise Security Cloud

VirtuCrypt, Futurex's Hardened Enterprise Security Cloud Service, is breaking the mold of traditional cloud computing, providing a fresh approach by combining the convenience of cloud-based services with the robust physical and logical security of FIPS 140-2 Level 3 validated Secure Cryptographic Devices. Organizations of all sizes can benefit from the VirtuCrypt solution suite, with Futurex's Hardened Enterprise Security Platform offering cloud-based features such as offsite disaster recovery and redundancy; hosted core cryptographic infrastructures; secure data storage, processing, and validation; and more, all from within multiple secure SSAE 16 (SOC 1, 2, and 3), PCI DSS, and HIPAA-compliant hosting facilities.

Common applications include:

- Data encryption, validation, and authentication
- Key and certificate lifecycle management
- License and file signing , issuance, verification, and revocation
- Remote distribution of encryption keys
- Customized, turnkey solutions

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