CryptoSwifteCommerce Accelerator



Handle unexpected peak loads, and deliver faster transactions to your clients.

CryptoSwift Accelerates:

- SSL
- SSH
- TLS
- IPSec/IKE
- SET
- SWAN

Algorithms Supported:

- RSA
- DH
- DSS
- Modular exponentiation



Product Overview

Whether you are implementing an eCommerce Web site or a PKI environment, CryptoSwift TM can significantly improve your secure Web server response time and extend the life of your server investment. Rainbow Technologies' CryptoSwift accelerates the public-key cryptographic functions of SSL, TLS, SET, SSH and other widely used security protocols.

Using patent-pending technology, CryptoSwift contains a public-key processor that off-loads and speeds up the secure operations that would otherwise saturate the Web server's main processor. Running up to 600 transactions per second and processing a 1024-bit RSA transaction in less than 5 milliseconds, CryptoSwift improves server response time by up to ten times and frees your server to perform other tasks. The CryptoSwift board easily plugs into the PCI slot of your server and seamlessly installs into your secure Web server software. CryptoSwift works with the secure Web server resources you have in place allowing your infrastructure investment to last longer.

CryptoSwift's performance is available in speed configurations including 100, 200, and 600 transactions per second, matching your needs at a price you can afford. In addition,

because CryptoSwift is scalable, multiple cards can provide increased performance; allowing you to handle any size peak load—for example, three cards triple the speed.

Key Features

- Improves your server's response time by up to 10 times
- Seamlessly integrates with your secure server software
- Easy software installation
- Extinguishes customer wait-times
- True hardware random number generator
- Hardware secure key management capabilities
- Operates under multiple platforms
- Scalable performance with multiple CryptoSwift boards without requiring server reconfiguration
- CryptoSwift ENTM, an external version is available
- CryptoSwift HSMTM, a physically secure version is available
- Supported by leading cryptographic developer tool kits and secure applications

Applications

- Online Store Fronts
- Electronic Stock Trading
- Payment Gateways
- Financial Services
- Electronic Data Interchange (EDI)
- SET Merchant Servers
- Internet Service Providers
- Tax Processing
- Student Records
- Intranet Secure Servers
- Medical Records
- Travel Reservations



http://www.rainbow.com/cryptoswift

Specifications



CryptoSwift is easy to install, and seamlessly integrates with your server software.



CryptoSwift dramatically increases the number of clients your server can support.

Product Compatibility

Device Driver O/S Compatibility

- AIX 4.3.2
- BSDi 3.0
- FreeBSD 2.1.5, 2.1.6
- Linux 2.2.5
- SUN/Solaris 2.5.1, 2.6, 7
- WinNT 4.0, 3.5.1, 3.5
- HP/UX 10.20, 11.0
- Windows 2000

Compatible Servers

- Apache Web Server
- · Microsoft IIS/BackOffice
- C2Net Stronghold
- iPlanet Web Server
- Netscape Proxy Server
- Netscape Directory Server
- Netscape Enterprise Server

APIs, Tool Kits & Protocols

APIs and Tool Kits

- Consensus SSL Plus
- Cryptoki (PKCS #11) Ver.1.1, 2.0
- Entrust
- Intel CDSA
- Maithean NetPAY
- Microsoft CryptoAPI 1.0, 2.0
- OpenSSL
- RSA BSAFE; RSAref; RSA S/PAY
- SETref
- SSLeav

Protocols Supported

- SSL (Secure Sockets Layer)
- SET (Secure Electronic Transactions)
- SSH (Secure Shell)
- IPSec (IP Security)
- IKE (Internet Key Exchange)
- TLS, SWAN

Cryptographic Functions

- Modular exponentiation functions, including DH, DSA, RSA and raw modular exponentiation
- Secure data storage for private keys
- RSA Public Key w/ CRT key lengths—384-bit to 4096-bit
- RSA modulus length increments—128-bit
- RSA private key w/ CRT performance—4.95ms/operation at 1024-bit
- Random Number Generation—up to 4,096 Bytes/command
- RNG output—18,000 Bytes/sec

Regulatory Standards Certification

- U/L 94V-0 Flammability
- FCC Part 15 Class B
- ISO 9002 Certification
- CE Compatibility
 - -CISPR 11/22
 - -IEC 801-2, 801-3 and 801-4
 - -EN 60950

Export

- Exportable internationally for approved applications
- * Performance data results are available at http://isglabs.rainbow.com



Changing the way the world secures business.

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