

Finally, simple secure connectivity for KoolSpan Lock and Key Kit

Secure the erosion of network boundaries with a plug-and-play solution for nomadic workers.

Nomadic workers aren't just remote workers. They operate in the office, from the field and from client sites, often within the same day. Nomadic workers require multi-modal access. At the same time, network boundaries are eroding under a number of internal and external forces.

Furthermore network endpoints are always changing and firewalls are becoming less fortified, like a 'screen door', as IT administrators must open dozens of 'holes' or ports to allow traffic flow for applications, which require external communications to operate properly.

KoolSpan addresses these business challenges with a powerful plug-and-play solution for nomadic workers that fortifies network boundaries.

KoolSpan is a platform

The KoolSpan Platform consists of three components, each containing proven security technology: a Smart Card, KoolSpan Locks, Keys, and KoolSpan Manager work together to provide an unmatched security model without servers or user complexity. Whether in the Lock-to-Key or Lock-to-Lock configuration, the KoolSpan Platform Solution is powered by Smart Card-to-Smart Card architecture.

KoolSpan Key

The KoolSpan Key provides users with a trusted connection to a Lock on the network with two-factor user authentication. Users simply plug the Key,

which is a Smart Card housed in a USB token, into their computer



KoolSpan Key

and enter a personal PIN. The Key's Smart Card authenticates to the network and establishes a secure per-packet 256-bit AES encrypted session. As the Smart Cards are

laser-etched, each with a unique serial number, they cannot be cloned like a MAC address.

The KoolSpan Key operates in combination with a Windows-compatible driver. The driver requires zero configuration, as all connection parameters are maintained in the user's Key.

KoolSpan Lock

The KoolSpan Lock can protect any network asset — a high-value application, server, subnet or the entire net-



KoolSpan Lock (Appliance Model)

work. It authenticates authorized user Keys and/or other network Locks, the result of which is a secure 256-bit AES session with per packet keying. While not a firewall, the Lock is an endpoint. Nothing can be discovered beyond it without an authenticated, secured session.

A solid state device, the Lock is equipped with a Smart Card and cryptographic processor, and contains a database of registered users. Secured in flash memory and controlled by the KoolSpan Manager, this encrypted database can be accessed only by using the Lock's internal Smart Card.

High capacity, high performance

Rackmount Chassis

KoolSpan's Rackmount Chassis supports up to four hot-swappable Lock boards. High-availability is assured with two independent power supplies. Additional Lock boards are easily installed by removing the blank front panel plate and inserting the new Lock unit. No need to turn off the power or interrupt the operation of the other Locks in the chassis. Lock units are identical to existing Lock devices and take advantage of an internal secure backplane with dual, independent power supplies.



Key Business Benefits

- Gain the freedom and peace of mind to work securely anywhere, anytime
- Save time through easy installation and no configuration
- Gain flexibility through network independence and scalability
- Lower CAPEX and OPEX costs through interoperability with standard platforms and IP protocols
- Ease of use increases regulatory compliance



KoolSpan Lock (Rackmount Model)

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KoolSpan Manager

The KoolSpan Manager is an enterprise software application that allows the network administrator encrypted access to Locks and Keys. The application is accessible using the Manager Key, which contains a Smart Card, and its PIN. The combination of the Manager Key and PIN provides the IT Administrator entry to securely modify the Lock's registered user list and to enable the user's Key.

A variety of applications

The KoolSpan solution can be used for a variety of applications in any network environment. It operates as either a point solution or singular security solution addressing multiple security needs simultaneously. For example, KoolSpan can be used to secure VoIP calls, provide protected Remote Access without a VPN, secure WiFi in the office and at public hotspots, secure Ethernet for multi-site Bridging or Backbone encryption across private or public networks. In all cases, KoolSpan

operates without modification to, or impact on, the applications and networks it protects.

Strongest security available

KoolSpan's use of Smart Cards allow for robust and secure authentication in an existing validated technology. Embedded in each Lock and Key, Smart Cards are used as trusted components that independently authenticate each other and securely compute 256-bit AES session keys, which are then used to protect all network communications.

KoolSpan provides Layer 2, on-chip Ethernet encryption, and the session key is changed with every packet. Layer 2 implementation provides true bridging, and results in transparent operation to all higher layer protocols such as IP or applications. The AES algorithm encrypts without expanding the size of the source data, resulting in no impact on performance or speed.

Features

- Platform solution
- Reduced complexity, increased security
- Proven Smart Card solution
- Network independent
- Application independent
- LAN and WAN operation
- Layer 2 operation
- 256-bit AES encryption
- Per-packet keying
- Two-factor authentication
- Network keys never exposed
- No limits of scale
- Easy to install and use
- Zero configuration client driver
- Tamper-evident construction
- Unable to be cloned
- Ideal point solution, or singular Security architecture
- Native to local and remote, wired and wireless connections
- Supports unicast, multicast and broadcast
- Uses embedded KoolSpan Smart Card TrustChip version
- Active directory and LDAP aware
- Support for dial-up networking, including cellular data cards

Overall Solution

- 802.3, 802.11a/b/g, VoIP ATAs supported
- 256-bit AES Encryption, per packet keying
- Encryption of all Layer 2 data
- Two-factor authentication
- Authentication in only 2 packets
- Network keys never exposed

Management Software

- Unlimited Client Keys per Manager
- Number of Master Keys: 1 per logical network, clones available
- Secured by Master Key (embedded with Smart Card)
- Manager OS Compatibility: Windows 2000, XP

Lock

- Embedded Smart Card: 3DES & RNG on board
- Can be paralleled
- No spinning drives
- Encryption of all Layer 2 data
- Compatibility with virtually all network gear
- Two 802.3 10/100 Ethernet ports:(one "Trusted" and one "Non-secure" network)
- 6vdc, 800ma (supplied via 110vac adapter) or 802.3af Power over Ethernet
- Dimensions:18.57 cm (7.31") x 10.62 cm (4.18") x 3.45 cm (1.36")
- FCC Part 15 Class A Certified Key and Client Driver

Key and Client Driver

- Embedded Smart Card: 3DES & RNG on board
- 14 concurrent profiles per Key
- Automatic Lock-out for invalid 2-factor attempts
- Client Driver OS Compatibility: Windows XP and 2000
- Power supplied via reader —no battery required
- Dimensions 1.27cm (0.5") x 3.18 cm (1.25") x 0.95 cm (0.38")
- Cryptographic Certification:NIST FIPS 140-1 Level 2 certified Smart Cards

For More Information

Please call 240.880.4400, or go to www.koolspan.com