

Features

- Secure VoIP
- 256-Bit AES Encryption
- No NAT Traversal Issues
- No STUN servers
- Standard VoIP
- Use "local" PBX Extension Numbers anywhere
- Works with All SIP Clients
- Compatible with all Networking and Telephony Equipment
- Internal Security Beyond the Network Perimeter
- Proven Smart Card Based Solution

Secure and Simplified VoIP

KoolSpan secures VoIP communications

KoolSpan secures VoIP communications and dramatically reduces the cost and complexity of deploying IP telephony. Designed to protect and extend an enterprise VoIP network to any location, KoolSpan operates without any modification to VoIP protocols or equipment.

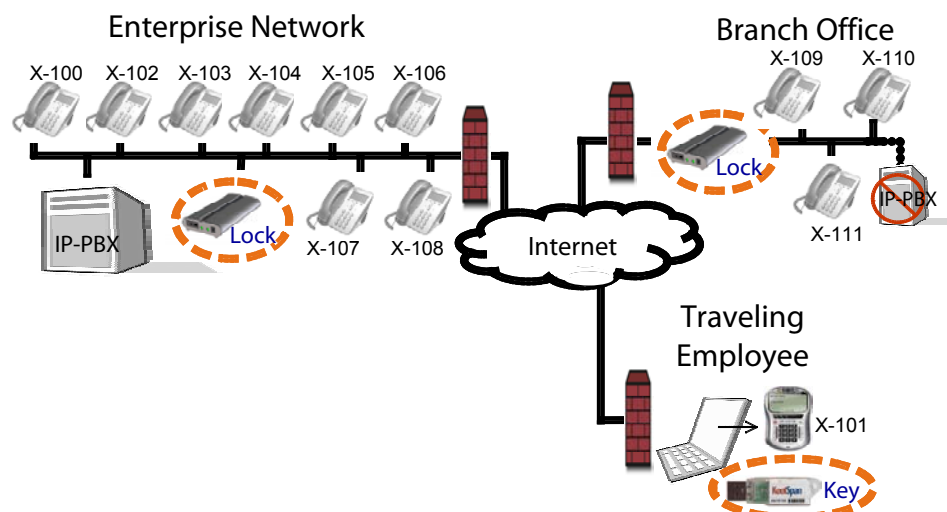
KoolSpan enables the enterprise to realize VoIP's promise of exceptional cost savings. A single IP-PBX can easily serve multiple locations and remote users without any equipment replication in the field. Compatible with all networking and telephony equipment, KoolSpan's operation is transparent to its users.

- **Strong Security** – 256-bit AES encryption with per packet keying
- **NAT Traversal Resolved** – All callers are always local to the IP-PBX from anywhere
- **VoIP ROI: Expansion Without Replication** – One IP-PBX, serve multiple sites
- **Internal Extensions Everywhere** – Internal extensions work across any network
- **Soft Phones Simplified** – One-time configuration, regardless of connection location
- **Beyond Voice** – Leverage the same security architecture for non-voice data

Strongest Security Available

As VoIP is a well-defined protocol, eavesdropping is very easy and one of the most difficult challenges for the enterprise. With KoolSpan all communication between the IP-PBX and its extensions, whether they are physical phones or soft phones, are protected by mutual authentication and 256-bit AES encryption with per-packet keying.

Because the connection is secure before a VoIP call is even established, the entire session is fully protected at every step. KoolSpan provides Layer 2, on-chip Ethernet encryption, which results in transparent operation to higher-level VoIP protocols and applications. As the AES algorithm encrypts without expanding the size of the source data, there is no impact on performance or speed.



Security Without Boundary™

VoIP

KoolSpan®

Layer-2 Solution

- Fully protected communications...at every step
- No impact on Performance or Speed

Beyond Voice...

- Remote Access without a VPN
- Leverage the same security architecture for data

KoolSpan Lock

- Hardware-based Encryption
- Tamper-evident Construction

KoolSpan Key

- One Key, Many Networks
- No Battery or Display to Wear Out

NAT Traversal, NOT An Issue

One of the most difficult technical challenges surrounding VoIP is the issue of address translation through firewalls or routers. As the VoIP protocol embeds the user's internal IP address in the protocol stream, an address that is useless outside the originating network, VoIP communications fail without a substantial investment in session control infrastructure.

With KoolSpan, all users and networks securely connected to the IP-PBX are also local to the IP-PBX. Via a native Layer 2 connection and with IP addresses assigned by the LAN on which the IP-PBX operates, all callers are true LAN-peers with the IP-PBX at all times regardless of their physical location. The entire NAT traversal issue disappears.



KoolSpan Lock

VoIP ROI - Expansion Without Replication

KoolSpan drives significant VoIP ROI. Uniquely securing all communications at Layer 2 across IP networks, KoolSpan allows the enterprise to roll-out VoIP across any geography on a single IP-PBX. Branch offices simply need a KoolSpan Lock and traveling workers only a KoolSpan Key to connect to the internal telephony infrastructure.



KoolSpan Key

The bottom line... KoolSpan saves the enterprise material capital expenditures and significant operating expenses by providing a centralized and dramatically simplified network architecture that requires less support and maintenance.

Internal Extensions... Externally Operable

Inside the Enterprise, telephone extensions are often assigned to a location or business function (i.e. x-100 sales department, x-110 conference room, x-104). This convention works fine inside the LAN where the IP-PBX is operating— but not outside. Similarly, employees assigned an internal extension can use that extension only when inside the network.

With KoolSpan, users and devices always interact with the IP-PBX using their internal extension, regardless of location. This allows an enterprise to easily move the x-100 sales line, for instance, to a remote office or to enable a traveling employee to be reached via internal dialing even while on the road.

Beyond VoIP... Non-Voice Data

KoolSpan's network layer operation provides security to all data and all applications without modification. The same secure network connection used to provide protected VoIP can simultaneously enable a traveling employee with remote access to email and other network resources. The same secure VoIP network can enable multiple field offices to share the same file servers and other network resources.

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