SafeMove® for Nokia Smartphones

Business on the move

Did you want to hop in a cab from that coffee house HotSpot and ride to the airport without breaking your application connections to the enterprise home office? With Birdstep SafeMove on your Nokia Smartphone, you can.

FULL SECURE ACCESS TO CORPORATE NETWORK

SafeMove for Nokia Smartphones is an innovative software-based solution for connecting mobile devices securely to corporate networks. The software enables seamless roaming between cellular and WLAN networks choosing automatically the best network available. All data communications are encrypted and all users are authenticated from the user devices to the enterprise network.

BETTER PRODUCTIVITY

By providing seamless and secure roaming, SafeMove for Nokia Smartphones is able to reliably deliver breakthrough services to mobile users including VoIP, streamed video, (push)email, calendar and access to shared data services. The user has always the best available connection in use that does not break even when changing link media, for example from WLAN to 3G to GPRS. More efficient operations free resources for effective working and automatic utilisation of WLAN networks significantly reduces costs of data communications, especially international roaming fees.

EASY MANAGEMENT

SafeMove-client for Nokia Smartphones connects to SafeMove server, a high-performance, scalable solution for the central office. SafeMove server provides single server infrastructure to all mobile workers of an organisation regardless if they are laptop or smartphone users. Deployment and remote wireless management of SafeMove clients in Nokia Smartphones can be done by using OMA Device Management. SafeMove enterprise mobility solution is based on standard technologies such as IPsec, Mobile IP and PKI.

Technical specifications (SafeMove version 4.2.4)

COMPONENTS
Birdstep SafeMove client (Mobile IP)
Birdstep SafeMove server (Mobile IP Home Agent, IPsec Gateway)
Birdstep SafeMove Manager
Nokia mVPN client
OMA Device Management

SUPPORTED PLATFORMS
Client
Nokia E51
Nokia E63
Nokia E66
Nokia E71
Nokia E90
Server
RedHat Enterprise Linux 4 and CentOS4

HIGH AVAILABILITY AND LOAD BALANCING
Server-side support for stateful high availability and load balancing.

WIRELESS AND CELLULAR NETWORKS
Support for WLAN, HSDPA, UMTS, EDGE, GPRS

MANAGEMENT
OMA Device Management

SUPPORTED AUTHENTICATION STANDARDS
X.509v3 certificate format
PKCS#12 interface for importing private keys and certificates

SUPPORTED VPN STANDARDS INCLUDE eg.

RFC2401	Security Architecture for the Internet Protocol
RFC2406	IP Encapsulating Security Payload (ESP)
RFC2407	The Internet IP Security Domain of Interpretation for ISAKMP
RFC2408	Internet Security Association and Key Management Protocol (ISAKMP)
RFC2409	The Internet Key Exchange (IKE)
RFC2631	Diffie-Hellman Key Agreement Method
RFC3947	Negotiation of NAT-Traversal in the IKE
RFC3948	UDP Encapsulation of IPSec ESP Packets

SUPPORTED MOBILITY STANDARDS

RFC2003	IP Encapsulation within IP (IPIP)
RFC2794	Mobile IP Network Access Identifier Extension for IPv4
RFC3024	Reverse Tunneling for Mobile IP
RFC3115	Mobile IP Vendor/Organization-Specific Extensions
RFC3344	IP Mobility Support
RFC3519	Mobile IP NAT/NAPT Traversal using UDP Tunnelling
RFC3543	Registration Revocation in Mobile IPv4
RFC4433	Mobile IPv4 Dynamic Home Agent Assignment
RFC4917	Mobile IPv4 Message String Extension

NAT TRAVERSAL
NAT Traversal enables smooth mobility between networks behind a network address translation (NAT) gateway. This is needed when visiting networks behind certain firewalls, certain hotspots and cellular networks.

SECURITY PROTOCOL FRAMEWORK
IPSec/IKE

USER AUTHENTICATION METHODS
Software certificates

IKE
Authentication methods
RSA signature, DSA signature
Exchanges
Main, Quick

IPsec
Modes
Tunnel
Protocols
ESP
Hash algorithms
SHA1
Encryption algorithms
AES, Triple DES

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