

Nokia Mobile VPN for Nokia smartphones

Enable your employees to connect to your business network virtually anytime, anywhere

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Connecting People

Data sheet

Nokia Mobile VPN Client is an interoperable and manageable IPSec VPN client that allows users to access compatible business intranet and extranet services from mobile devices and Nokia smartphones optimised for business use.

Nokia Mobile VPN Client is an IPSec Virtual Private Network (VPN) application developed by Nokia for Symbian OS-based smartphones. An IPSec VPN allows a user to use the mobile network and the Internet to safely connect from the smartphones to the company network.

Once authentication to the company VPN is successful, data travels encrypted to and from the smartphones and is received just as the sender sent it – all with complete confidentiality and data integrity. IPSec also protects against electronic theft because attackers are unable to capture data when it is sent or received to then retransmit later.

Management is based on the Open Mobile Alliance Device Management (OMA DM) protocol, and any device management server that follows OMA DM specification can be used to install the client, to deploy VPN policies and X509v3 certificates.

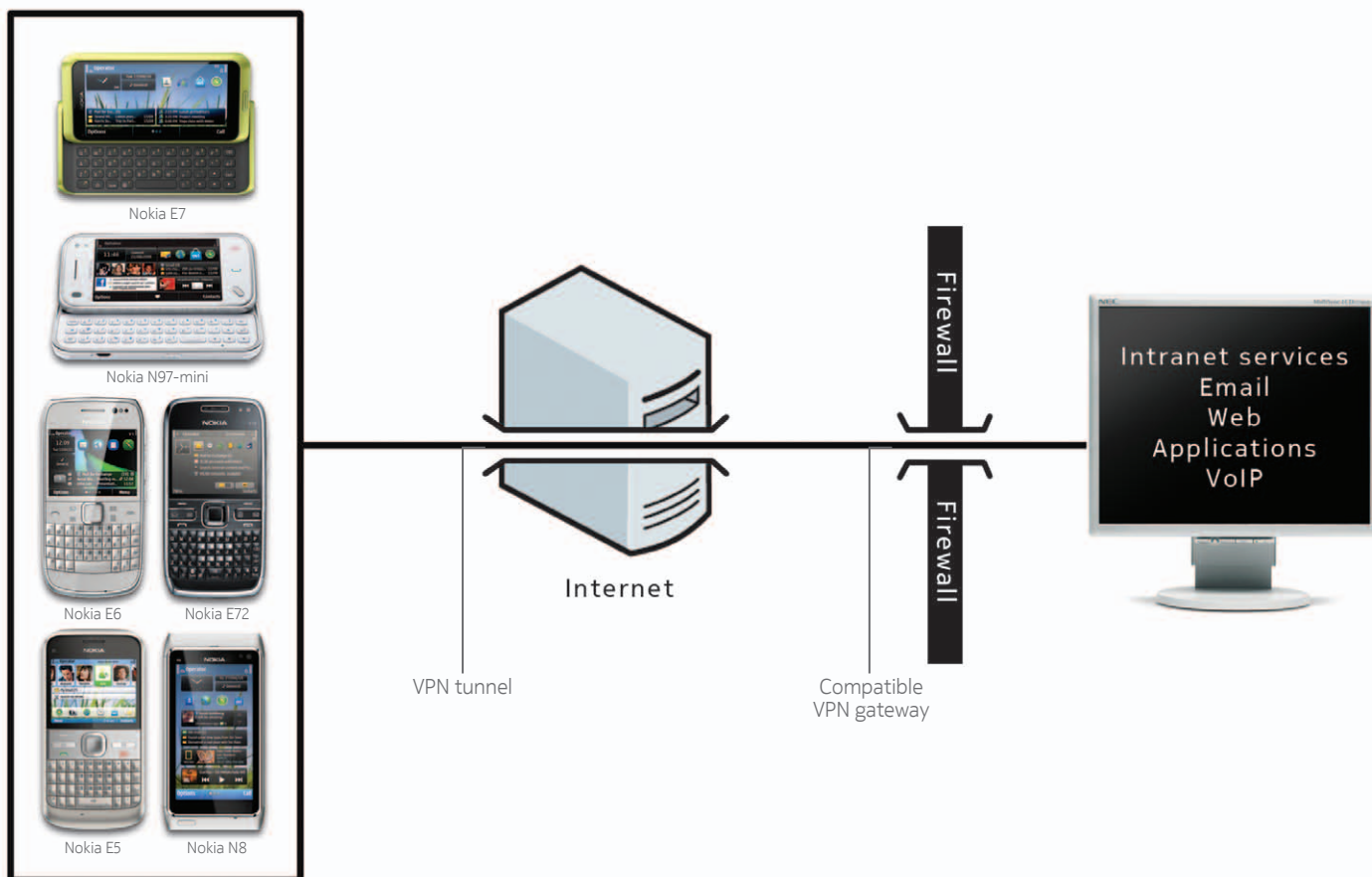
Smooth, secure intranet browsing

Nokia smartphones come equipped with an intranet application that makes intranet web browsing easier than ever before. This application creates VPN access points automatically when needed, establishes a Nokia Mobile VPN connection and launches a web browser to a predefined intranet web page. The intranet application also supports silent web single sign-on in environments that support NTLM authentication (Nokia Eseries feature). This makes intranet access smooth and silent, as there are no username/password queries. Nokia Mobile VPN Client provides the necessary access using standards-based Internet Protocol Security (IPSec) VPN technology. This allows users to click on a link to an intranet web page embedded in an email that is received by the always-on email solution – Mail for Exchange for Nokia smartphones. Nokia Mobile VPN Client provides intranet access transparently for the user, authenticating the session using digital certificates or by adhering to username/password authentication infrastructures with RSA SecurID token or Active Directory/LDAP-based schemes.

Deploying and managing Nokia Mobile VPN Client

For small-scale deployments, Nokia Mobile VPN Client can be set up through the user interface on the smartphone. Nokia Configuration Tool can be used to create VPN policy and to attach optional certificates into a VPN policy bundle. The created policy bundle can be delivered to a device using USB or Bluetooth® connection. Once the policy is delivered to the smartphone, VPN implementation is just a click away.

A device management server that follows OMA Device Management specification can be used to install, configure, and continuously manage not only the VPN Client but application settings such as email and the web browser (for example, to add links to intranet pages for the company). Device management can also be used to define WLAN/Wi-Fi access points to provide a full range of intranet access options to the end-user. Using OMA Device Management interface to do over-the-air deployment offers a superior consumer experience for end-users – seamlessly, reliably and without user intervention.



Technical detail – Nokia (VPN) for Symbian application for OS-based mobiles

Supported smartphones

All Nokia S60 and Symbian OS smartphones since S60 3rd Edition, Feature Pack 1, including all Nokia Eseries smartphones (e.g. Nokia E7, Nokia E6, Nokia E5 and Nokia E72).

Key features:

Nokia Mobile VPN Client empowers an employee using a Nokia smartphone to reliably access network services from email and intranet browsing, to corporate VoIP services.

Among its many critical features, Nokia Mobile VPN Client also supports:

- IPsec over Network Address Translation (NAT)
- Split-tunneling
- Internal addressing and DNS
- OMA DM for automatic policy updates
- Automatic certificate enrollment via OMA DM
- Manual configuration using the device's user interface (UI)

Supported VPN gateways

- Nokia IP VPN Gateway
- Check Point VPN-1 NGX
- Cisco ASA and 3000 Concentrator
- Alcatel-Lucent Brick VPN Gateways

Encryption algorithms

- DES (56 bits), 3DES (168 bits), AES (128, 192, 256 bits)
- SHA1, MD5 hash algorithms for encryption

User authentication

- X.509v3 digital certificates for authentication
- CRACK for legacy authentication
- Username/Password (RADIUS)
- Token cards
- IKE preshared secret
- xAuth (extended authentication)
- GSM Subscriber Identity Modules (SIMs) via EAP-SIM
- Third Generation authentication and key agreement via EAP-AKA

Public key algorithms

- Diffie-Hellman 768 – 2048 bits (Groups 1, 2, 5 and 14)

Key management

- IKEv1 (ISAKMP/Oakley – main, aggressive), IKEv2
- PKCS#8 for private key format, PKCS#5 v2 for private key encryption
- PKCS#12 for importing private key and certificate
- Perfect Forward Secrecy (PFS) for IPsec associations

Learn more about Nokia Mobile VPN Client at: www.nokia.com/mobilevpn

