

Nokia IP VPN Solutions

Nokia 5i



Nokia for Business



Nokia 5i VPN gateway is a compact, fully integrated gateway with excellent price-performance, designed to meet the needs of small offices who need secure broadband network connectivity.

People are mobile, and, as a result, the workplace has evolved to support the employee's ability to work outside of the traditional office walls. To maintain productivity, employees must access business-critical information, whether they are on-site in their traditional office or accessing information from a remote office.

Nokia IP VPN provides the security and mobile connectivity to connect users to fixed resources of business-critical information. As part of the Nokia IP VPN gateway family, Nokia 5i is a purpose-built, fully integrated

appliance specifically designed to meet the needs of small offices who need secure, broadband network connectivity with excellent price-performance.

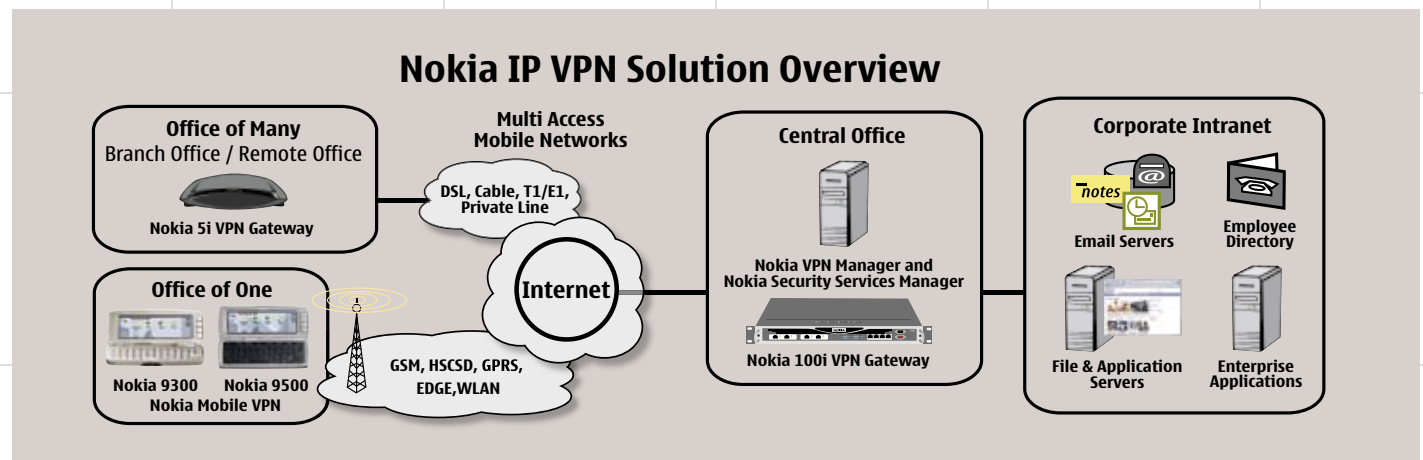
Nokia 5i is a desktop connectivity gateway supporting leading-edge VPN, routing and firewall functionality for exceptional performance for a small office. By supporting point-to-point protocol, Nokia 5i will provide network connectivity using broadband networks. The gateway is equipped with three configurable 10/100 Ethernet ports and a console port to connect to an external modem. Nokia 5i is also equipped with a serial port for dial backup in the event of a link disconnection on the Ethernet port.

Nokia 5i can be easily managed using Nokia VPN Manager. With the graphical interface,


IT managers in small offices can manage gateway policies and configurations using an easy-to-use, centralized management solution to deploy, deliver, and update VPN policies and configurations. Nokia 5i also features a full command-line interface, SNMPv3 monitoring and remote logging services.

Finally, using Nokia 5i, small offices can extend their network to workers on-the-go through integration with Nokia Mobile VPN Client on Nokia devices running Symbian series 60 and series 80.

Best of all, Nokia IP VPN reliability, performance and security are backed by Nokia world-class First Call—Final resolution global support and service.



□ Technical Specifications

Internet Protocols <ul style="list-style-type: none"> AES-256 SHA-1 (1 node) = 80 Mbps Stateful Firewall (1 node) = 80 Mbps IKE Main Mode Tunnels = 25 3 integrated 10/100BaseT interfaces 	Policy-based Type of Service <ul style="list-style-type: none"> Differentiated Services (DiffServ) - DiffServ with IPSEC (DiffServ)
VPN <ul style="list-style-type: none"> IPSEC (RFC2401 – 12) - Diffie-Hellman Groups 1, 2, 5 (RFC2412, DIFF76) Encapsulation Protocols <ul style="list-style-type: none"> ESP Tunnel and Transport Mode (RFC2406) AH Tunnel and Transport Mode (RFC2402) Data Encryption <ul style="list-style-type: none"> AES 128, 192, and 256-bit (RFC3602) DES 56-bit and 3DES 168-bit (RFC2405) Message Authentication <ul style="list-style-type: none"> HMAC-SHA-1 (RFC2404) HMAC-MD5 (RFC2403) Key Management (RFC2409) <ul style="list-style-type: none"> IKE Main Mode IKE Quick Mode Perfect Forward Secrecy (RFC2409, RFC2412) Remote Access <ul style="list-style-type: none"> IPSEC (RFC3457) L2TP (RFC2888, 2661) PPTP (RFC2637) L2TP within IPSEC (RFC3193) NAT Traversal (RFCs 3947 & 3948) Split Tunneling Network Topologies <ul style="list-style-type: none"> Hub & Spoke Full Mesh Custom 	Meta-Hop and High Availability <ul style="list-style-type: none"> Intelligent VPN <ul style="list-style-type: none"> Self-Learning Self-Healing Prioritized External Interface Backup <ul style="list-style-type: none"> Ethernet (including DSL/Cable) Dial (including V.92/ISDN) Backup Hub High Reliability Hardware Design <ul style="list-style-type: none"> Flash-based System
Routing <ul style="list-style-type: none"> OSPFv2 (RFC2328, STD0054) RIPv1/v2 (RFC2453, STD0056) - RIPv2 with MD5 Static Routes Routing over IPSEC 	PKI and Authentication Services <ul style="list-style-type: none"> Nokia AOS Certificate Authority <ul style="list-style-type: none"> X.509v3 digital certificates CRLv2 certificate revocation LDAPv3 certificate storage PKCS#7, PKCS#10 certificate enrollment SCEP client Nokia Security Service Manager Enrollment Gateway Password Authentication with CRACK 3rd Party Authentication Services <ul style="list-style-type: none"> RADIUS SecurID LDAPv3 Microsoft Active Dir Entrust Authority Verisign PKI Baltimore UniCERT RSA Keon Microsoft CA Sun ONE Certificate Server
Addressing <ul style="list-style-type: none"> Network and Port Address Translation (RFC3022, RFC1918) DHCP (RFC2131 – 2, RFC3396, RFC3442) <ul style="list-style-type: none"> Client Server Relay with BOOTP forwarding Point-to-Point Protocol (RFC1661 – 2, STD0051) <ul style="list-style-type: none"> PPP over Ethernet (RFC2561) Static Address 	Management <ul style="list-style-type: none"> Nokia VPN Manager SSHv2-secured AOS CLI SNMPv1/v2/v3 (USM) (RFC3411 – 15, STD0062) <ul style="list-style-type: none"> MIB-II (RFC1213) IP MIB (RFC2011) TCP MIB (RFC2012) UDP MIB (RFC2013) Interfaces Group MIB (RFC2863) IP Forwarding Table MIB (RFC2096) Host Resources MIB (RFC2667) Nokia VPN IPSEC MIB Nokia VPN L2TP/PPTP MIB Nokia VPN Configuration MIB Syslog Logging NTPv3 Client Out-of-Band Mgmt via Modem
Clients <ul style="list-style-type: none"> Nokia Mobile VPN Client 3.0 (for Windows 2000, Windows XP and Windows Mobile 2003 Second Edition) Native Microsoft Windows L2TP/IPSEC client support 	Dimensions and Power <ul style="list-style-type: none"> Width – 7.2" (183.5 mm) Height – 1.8" (43.0 mm) Depth – 5.8" (144.5 mm) Weight – 0.8 lbs. (363 g) Power input 100V, 120V, 230V
Firewall <ul style="list-style-type: none"> Stateful Inspection Demilitarized Zone (DMZ) Protocol Support (partial list) <ul style="list-style-type: none"> HTTP, HTTPS SMTP, IMAP, POP3 Telnet, SSH NetBIOS over TCP ICMP, SNMP, DNS, NTP Application Gateways <ul style="list-style-type: none"> FTP TFTP RTP (RealAudio/RealVideo) IRC Chat Stateful TCP, UDP and ICMP Flows 	Environment / Certification <ul style="list-style-type: none"> Temperature: 5°C to -40°C Humidity: 10% to -90% (non-condensing) Storage temperature: -20°C to 60°C 

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