



CAFÉ NETWORKS LIMITED SERVER SOLUTIONS

VPN SERVER – PRODUCT OVERVIEW

A VPN (Virtual Private Network) allows a highly secured connection between two or more locations to your office network. A VPN will allow your business to connect branch offices, customers, suppliers or remote workers to the corporate network cheaply and securely, whether you want faster or cheaper site-to-site communications or the ability to access your business information from a laptop or PDA whilst away from the office.

The Café Networks SSL/TLS based VPN server is built on one of the most reliable and secure platforms available today. The VPN connection and security of the server and clients is centrally monitored to ensure any problems or issues are identified and corrected as soon as they appear.

Key Business Benefits of a VPN Solution:

- Your staff can connect to your internal network and have access to files in exactly the same way they would as if they were in the office.
- With VPN security, your users can have secure access to their email, business documents and corporate databases irrespective of where in the world they are. All they need is an Internet connection
- Our VPN security is of the very highest current technology. Hackers cannot snoop on the data while it is transmitted and they cannot access your VPN protected network. Several layers of security are used to establish VPN security and encryption. Your users don't even have to remember any passwords or login ID's.
- There is no need for an expensive ISDN or leased line when connecting offices. A relatively cheap ADSL broadband installation is all that's needed at each end along with the VPN hardware.
- Save on the cost of couriers or postage between offices. Virtual private networks effectively reduce the amount of paperwork which has to be moved between sites manually.
- Home working can save on staff travel time. More and more organizations now allow their staff to work from home where their roles can be performed just as efficiently from home as it can be in the office. A VPN set-up can considerably improve working day capacity as home workers do not have to waste hours travelling to and from the office.
- Allow customers and suppliers secure access to selected areas of you internal office networks to improve communications and efficiency.

The Café Networks VPN solution incorporates our standard Firewall and Network Border solution. This means you and your business can be confident that your business network and information is safe and secure.

For a detailed product comparison with a competitor product, please point a web browser at:

<http://www.cafenetworks.co.uk/comparefirewall>

Please contact Café Networks on 0116 2232851 for further information



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VPN SERVER – TECHNICAL OVERVIEW

Café Networks Firewall Server

- Network Address Translation (NAT)
- Network Address Port Translation (NAPT)
- Stateless packet filtering
- Stateful packet filtering
- Denial of Service prevention/protection
- Intrusion Detection System
- Tripwire System Option
- Second-level Detection System
- Hourly Log Scanning And Analysis
- Hourly Log Central Server Reporting
- Broadband Failover Option
- DHCP Server
- DMZ Server Zone Option
- Web/DNS Proxy Server Option
- Web Content Filter Server Option
- Policy Enforcement Monitoring Option
- Daily Remote Off-Site Log Backup
- Central Firewall Monitoring Option

Café Networks VPN Server Module

- Unlimited number of Permitted Simultaneous Connections
- Internal Wireless Network Lock-Down Option
- Site-to-Site
- Mobile-to-Site
- IKE/IPSec Based Option
- SSL/TLS Based
- Multiple handshaking/security layers
- Encryption Algorithm - 3DES (168Bit Encryption) Option
- Encryption Algorithm - AES (256Bit Encryption) Option
- Encryption Algorithm - Blowfish (up to 448Bit Encryption) - Algorithm used by default
- X.509 Certificate Based Keys (2048bit Encryption)
- Hourly key renegotiation
- Data Compression
- Stolen Equipment Identification Option (IP Lookup Identification)

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VPN SERVER – CASE STUDY



Background:

69 Magazine is the UK's number one circulating entertainment & listings magazine with a readership in excess of 146,465 per issue within the Midlands. It publishes 5 times per annum and has recently launched its website www.69-247.com which is attracting over a quarter of a million hits per month.

The Brief:

"We want to explore the possibilities of allowing all our staff to be able to work from various locations throughout the Midlands – to save money and time - but only if we can create a secure remote network that enables us to share and save data as effectively as if we were sitting in the same room as each other, with all of this needing to be achieved as cost effectively as possible."

The Solution:

Multiple broadband connections were connected via a piece of technology called a Virtual Private Network, this has been set up to allow shared information to be viewed at all locations. In addition; a fast database system has been established that synchronizes twice per day and ensures that staff are kept up to date. This secure server has also meant that we can transport sensitive data between offices with confidence that it cannot be intercepted."

The Verdict:

"Our remote network has enabled us to work from all our various locations as if we were all still sat together in a single office! This has saved us thousands of pounds per year plus the quality of work is so much better. For once the business is working for us rather than the other way round! We have found Café Networks to be approachable and extremely helpful in ensuring that we have a workable and effective system in place. Communication between staff members is now better than it was when we were sat in front of each other."

Kevin Urquhart, Director, 69 Magazine Ltd

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VPN SERVER – FAQ (Frequently Asked Questions)

Q: Why should I use a VPN rather than using a password protected access to a remote network share?

A: There are several reasons why a VPN should be used, the key reasons are:

- Using a remote network share would mean having to expose a computer/server/network directly to the Internet. This is always extremely dangerous as it does not restrict access
- Any data that is transmitted over the Internet would be available to anyone to see as it is transmitted. The Internet is made up of many computer networks joined together. As the data passes from network to network to its destination, it passes through lots of third party networks. If the data is sent just using a remote network share, anyone could read/sniff the data and see what is being transmitted (including the network share password)
- A VPN client works by having multiple uncrackable authentication keys that only the VPN server can decrypt. Once the keys have been confirmed, the 'tunnel' is established. Then any data that is sent down the 'tunnel' is encrypted, so the data cannot be intercepted and read.

Q: Can I add more connections to our VPN network?

A: Once the VPN server has been installed, additional client connections can be easily added

Q: My ISP (Internet Service Provider) only provides me with a dynamic IP, is this a problem?

A: Only the server needs a fixed IP address, connection to the server can be made from any IP address, whether fixed, dynamic, or even just from your laptop at a Wireless Hot-Spot. Café Networks will also be monitoring your IP address as it changes so support and updates can be supplied as necessary.

Q: I already have a complicated network set-up, I need to know that the Café Networks VPN solution will not disrupt how it works.

A: The Café Networks VPN solution is one of the most flexible and adaptable solutions currently available. There is no network set-up that the server cannot be configured to work with.

Q: I currently can share information internally on my network and I have certain ports forwarded on the firewall to allow particular traffic in and out I need to keep this set-up.

A: The Café Networks VPN will be set to match your internal networks and can be configured to replicate any existing port forwards as necessary.

Q: Where exactly does the VPN server sit on my network?

A: The VPN box sits in on the border of your network, directly connected to your Internet connection. The Internet connection comes into the VPN server and then out onto your internal network, with the exception that the firewall component will block and log attempts to get into your internal network by unauthorised users.

Q: I don't want all my Internet traffic to be passing through the VPN, how does the VPN work?

A: When you want to use the Internet, such as to surf the web, the information just flows out through your Internet connection as per normal, however, when you want to place something onto the VPN connected network, the VPN detects where the traffic is directed, and routes it through the encrypted tunnel to the server.

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