

## IPSec VPN & SSL VPN

### ...and protection

While extending the reach of applications greatly increases productivity, it also extends the perimeter of your business and consequently introduces new challenges and security risks.

That's why our Managed VPN services use industry-leading, award-winning security appliances from **Juniper Networks**, which can integrate with VPN functionality to provide high levels of protection.

Our **IPSec VPN** service is based upon robust and well known standards to provide the encryption and integrity of data in transit and to ensure the authenticity of end point devices. Dedicated tunnels can be set up and configured to enforce the required level of security.

Our **SSL VPN's** operate at application layer to provide an unmatched level of protection. By having visibility of actual content and not just network ports and IP addressing, administrators of the service are able to define policies to grant or deny access to resources at a very granular level. It also enables the detailed logging of actions and time based events.

Our **Managed Authentication Service** can be implemented to further enhance your remote access solution. It uses CRYPTOCard's award-winning token based authentication technology to positively identify end users before granting access to corporate resources, eliminating the risks caused by static, stolen or easily guessed passwords.

### Why we are the right choice

As the most advanced of the two national networks, ntl:Telewest Business is the future of UK business communications. Our Next Generation Network is vast, highly resilient and fully flexible. By plugging into it, our customers gain access to a complete portfolio of data, voice, internet and IP solutions to satisfy the demands of any modern organisation, as well as unrivalled support and accountability with 'local everywhere' service teams in 40 locations nationwide. We believe we are the right choice because:

- We have over 15 years' experience in delivering communications solutions in the private and public sectors
- We have world-class peering agreements to ensure rapid and efficient delivery of internet traffic across the globe
- Our £13 billion investment has created the UK's only nationwide Next Generation Network
- With fibre-optic infrastructure stretching 186,000km across the length and breadth of the country, we're already on your doorstep with competitively priced services.

Our attitude is also next generation: an open, collaborative, can-do culture in which our success is measured by the contribution we make to yours.

These twin strands of next generation capability and a service centric mindset form the DNA of a new kind of business telco. Say hello to Telecoms 2.0.

## Telecoms 2.0

To find out more call **0800 052 0845** or visit **[www.ntltelewestbusiness.co.uk](http://www.ntltelewestbusiness.co.uk)**

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# Remote Access using IPSec VPN and SSL VPN

The ability to share applications and data between offices and allow remote access to corporate systems is now becoming a necessity. Whether you want to increase productivity, provide more flexible working arrangements for your staff or improve communication links with suppliers, business partners and customers, remote access is essential to your organisation's efficiency and effectiveness.

For many organisations, providing secure remote access can be a daunting task, especially when it involves connecting a dispersed user base from a multitude of devices to a broad range of corporate resources. How do you ensure any information transmitted across the internet remains private? How can you be certain that the person accessing the information is who they say they are? What if your remote workers are connecting to the service from untrusted devices such as a home PC or public internet kiosk?

A managed Virtual Private Network (VPN) from ntl:Telewest Business combines easy to use and secure remote access solutions with established links over our next generation core network, enabling you to take full advantage of the internet to enhance business communications.

## Why do I need a managed VPN?

Combining internet, intranet and extranet connectivity through a single remote access solution enables you to reduce the cost and complexity of operating multiple networks and free up valuable IT resources. As such, a VPN offers an attractive alternative to traditional Wide Area Networks (WANs).

By enabling staff, no matter where they are based, to connect to a single integrated network, you can boost your operational efficiency, allow information to flow more freely and offer employees more flexible working arrangements.

When disaster strikes, a Remote Access solution can help ensure that critical components of the business can continue to function. In the event of a major disruption, call centre staff can be redeployed to work effectively from an alternative location to maintain business continuity.

A managed service takes out the complexity and overheads associated with implementing and managing a remote access service. Once your choice of VPN solution has been implemented, we will provide you with 24x7 support, allowing you to focus on the activities that directly contribute to the success of your business.



## Key facts

- A VPN provides a secure and cost effective means of transmitting company-sensitive information across a shared network.
- An IP Security (IPSec) VPN provides a secure, private tunnel between devices and is an ideal way to extend your private network across the internet to a remote site or branch office.
- A Secure Socket Layer (SSL) VPN uses familiar browser-based technology and robust security functions, making it the ideal solution for connecting internal or external users to your organisation's applications.
- Our strong two-factor authentication solution enables you to positively identify end users before providing access to valuable and sensitive information.
- Industry-leading, award-winning integrated security appliances from Juniper Networks ensure your network remains protected at all times.

## IPSec VPN & SSL VPN

### Which solution is right for my business?

**IPSec - or network layer - VPN** uses a shared network to transport sensitive multi-protocol traffic using a combination of encryption and tunnelling functions. Users can enjoy the same full, continuous access to the corporate network as if they were physically connected to it, ideal for sharing resources in separate offices to improve enterprise-wide productivity.

#### Choose IPSec VPN if:

- you mainly need site-to-site connectivity where tunnels are permanently established, e.g. connecting branch offices to corporate offices
- you only need to grant access to “trusted” enterprise hardware, e.g. company PCs, providing limited mobility options
- you need an always-on connection to enable large volumes of background traffic to be sent from automated programmes talking to other programmes, e.g. a retail POS system that sends transaction data to head office
- you require the extra layer of security afforded by software installed and configured on the client device.

**SSL - or application layer - VPN** offers users the convenience of being able to gain remote access to the network using any web-enabled device in any location, with no pre-installed client software required. SSL offers extremely granular access controls and addresses the needs of diverse audiences, from roaming or mobile workers to external users coming from unmanaged endpoints. This mitigates the risks that providing access to company resources from an untrusted network or unmanaged device, such as a home computer can introduce.

#### Choose SSL VPN if:

- you want to provide secure remote access to corporate resources to a diverse internal and/or external user constituency
- you want a device-neutral solution, enabling users to access the network from “untrusted” (non-enterprise) devices that support a web browser (e.g. public internet kiosk, mobile device, home PC)
- you want to avoid incurring the cost of licenses for client software and the administrative burden on IT of installing, configuring and supporting corporate remote devices
- you want to control users’ access at a granular level, including user identity, the network they’re coming from and the security status of their device
- you want to provide a solution that helps to ensure your business continues to operate in the event of a disaster.

### Quick reference guide

	IPSec VPN	SSL VPN
<b>Device</b>	Managed corporate device	Various devices
<b>Software</b>	Managed client software required	No additional client software needed
<b>Installation</b>	Requires client-side software or hardware	Plug and play – no additional client-side software or hardware installation
<b>Authentication</b>	2-way authentication, digital certificates	2-way authentication, digital certificates
<b>Encryption</b>	Depends on implementation	Browser based
<b>Security</b>	Edge to client	End to end
<b>User constituency</b>	Limited to a predefined and controlled user base	Anytime, anywhere access for distributed user base
<b>Ease of use</b>	Non-technical users may require some instruction	Based on familiar web browsers, user friendly, no training required
<b>Supported applications</b>	All IP-based services	All IP-based services
<b>User base</b>	Internal use, site-to-site communications	Employees, remote workers, contractors, suppliers, customers, business partners
<b>Scalability</b>	Harder to scale clients	Easily deployed and highly scalable
<b>Reporting</b>	Limited to connection only information	Very detailed auditing requests including user, application, resource, time and event information

## IPSec VPN & SSL VPN

### Performance...

Our VPN solutions are delivered using Juniper Networks devices, making it possible to address the needs of small to medium businesses all the way up to large distributed enterprises that require high-availability and high-performance from a system.

In the event of a disaster or unplanned disruption to the business, the same Managed VPN solution that enables remote workers to carry out their day-to-day activities can quickly support an increased number of remote users to ensure business continuity.

Our Cable Modem, DSL, Leased Line and Ethernet access products provide a wide range of connectivity options to complement our flexible VPN solutions. We can meet the lower bandwidth, lower cost requirement of a home worker or branch office, through to the high bandwidth, high availability demands of a corporate enterprise.

By choosing us as your combined service provider for both connectivity and remote access, you are assured of tightly integrated solutions and a single point of accountability.

Managed VPN services from ntl:Telewest Business include:

- Configuration and installation
- Service availability and performance monitoring
- Device configuration, integrity checking, back-up and restore
- Access to skilled security specialists
- Security incident response
- Hardware and software maintenance
- Change management.

Our Managed VPNs are supported 24x7 by our team of dedicated specialists and are backed by a business class Service Level Agreement (SLA) that is both comprehensive and competitive, demonstrating our commitment to providing you with a robust and reliable user experience.

