

TANet IP VPN

What is TANet IP VPN?

Businesses face increasing challenges when connecting geographically dispersed locations.

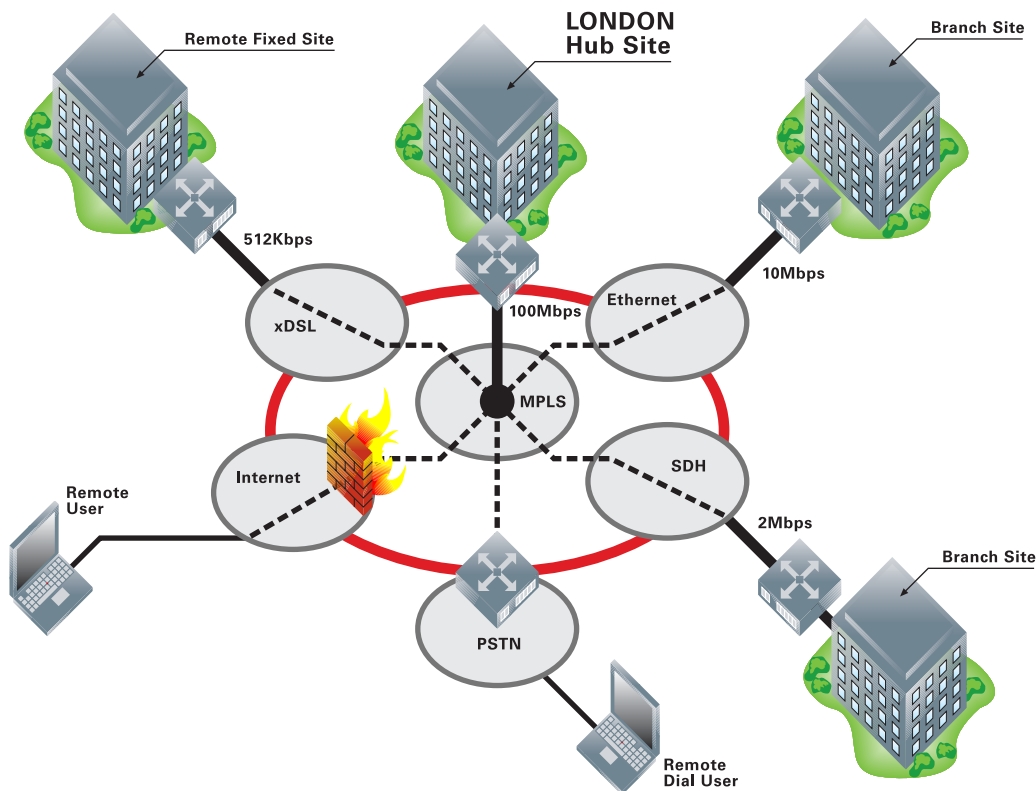
TANet IP VPN is a flexible, resilient, cost effective layer 3 VPN service providing connectivity between two or more locations at any speed from 64kilobits per second up to 1 Gigabit per second. TANet IP VPN uses Resilient Packet Ring (RPR) technology to deliver carrier class IP service reliability and uses Multi Protocol Label Switching (MPLS) to securely and efficiently switch routed traffic in Fibernet's national TANet backbone network.

MPLS technology represents the most advanced means of switching IP routed traffic between locations. It greatly increases performance by combining the best elements of layer-2 switching and layer-3 routing. Additionally, MPLS provides "in the cloud" security, to ensure data separation & privacy. Fibernet's IP VPN is an accredited "Cisco Powered Network" service. This accreditation provides

customers with not only the peace of mind but also the performance, security, scalability and interoperability that end to end Cisco systems deliver.

Fibernet has extensive coverage throughout the UK and provides IP VPN connectivity from over 100 Points of Presence (PoPs) in all major towns and cities. With significant investment in high capacity interconnects with both BT and other suppliers of local infrastructure, Fibernet can offer flexible, cost effective private fibre, leased line, LAN extension, DSL and ISDN access solutions wherever your sites are and whatever their needs may be. Our technical Pre-Sales consultants will design a bespoke IP VPN solution to meet your exact requirements.

Fibernet offers competitive Service Level Agreements due to the highly resilient design of the TANet network infrastructure. Specifically and uniquely, TANet IP VPN services are based upon a state of the art RPR core network. RPR brings SDH levels of reliability and recovery (sub 50ms) to our native MPLS network. Our range of last mile solutions enable extremely high availability networks to be engineered, to ensure, for example, non stop availability of datacentre and backup centre resources.



Service Options

↳ Managed

TANet IP VPN Managed service provides not only core network service and a range of access solutions but also Customer Premise Equipment (CPE) supply, configuration, maintenance and support. Service includes project management, project implementation and full end-end proactive service management.

↳ Wires Only

Ideal for resellers or customers that want to own/manage their own CPE, TANet IP VPN "Wires Only" provides flexible connectivity options into Fibernet's secure managed VPN Core network, enabling the seamless connectivity of multiple geographically dispersed locations. Fibernet provide its partners with advice and operational guidance to ensure that the best end result is achieved for both partner and end customer.

↳ Quality of Service (QoS)

Fibernet's TANet IP VPN service offers QoS capability to enable the best possible mix of network resource optimisation AND performance guarantees for individual application requirements. Up to three Classes of Service (CoS) are available in the core network. Customer's own CoS levels may be mapped onto each of these three at the customer edge routers. Fibernet's Technical Pre-Sales consultants work with customers to define exact design parameters. The following table illustrates the classes of service available across the network core.

Traffic Classes	Application	Managed	Wires Only
Standard Business	For all standard Business traffic such as Internet, e-mail	✓	✓
Business Low Loss/Latency	For applications that require Low Loss/Latency such as Windows Terminal Server, Citrix Winframe, SAP	✓	
Realtime	For real-time applications requiring Low Loss/Latency such as Voice over IP (VoIP) and Video	✓	

Class of Service settings offer customers the ability to match specific application requirements with the CoS setting that is most appropriate to user needs.

Security

All customer ports are physically separate. By utilising MPLS in our core network, routed network paths are carried across secure layer 2 label switched paths individually created between each of our "Provider Edge" (PE) routers. MPLS label-switched paths

provide equivalent security to Layer 2 VPN's (Ethernet virtual paths, ATM & Frame Relay virtual circuits). Customers may implement private IPSec tunnels and encrypt traffic to further enhance security.

Features

TANet IP VPN offers significant improvements over many legacy WAN solutions.

↘ Scalable connectivity

64Kbps to 1000 Mbps.

↘ Secure

IP over MPLS label-switched paths.

↘ Flexible

Select the access medium to meet your requirements - PSTN*, xDSL, Leased Line, SDH, Ethernet and direct fibre connection.

↘ Resilient

RPR uses Ring Wrap and steering functionality to offer sub 50ms restoration.

↘ Quality of Service

Traffic management and Class of Service (CoS) profiles ensure that maximum levels of utilisation are achieved whilst maintaining application performance expectations.

↘ Service Level Guarantees

Aggressive service level targets backed up by robust network design and performance guarantees.

↘ Delivery options

Fully managed or wires only service

↘ Proactive management

24*7*365 network monitoring and management.

* Future option

At a glance

Feature	Options
Connectivity Options	PSTN*, xDSL, Leased Line, SDH, Ethernet, Fibre
Class of Service Options	Standard Business Business - Low Loss/Latency Realtime
Interfaces	X21 (DB15), G703/4(RJ45 or BNC), 10/100 - RJ45, Gigabit - Optical (GBIC)
Backbone Technology	MPLS over RPR
Service Availability Target	99.999% Premise-to-Premise
Fault Response Target	4 hours
Fault Restoration Target	8 hours
Service Delivery Lead Time	15 working days 64Kbps-256Kbps 35 working days 320Kbps-2Mbps 65 working days 10Mbps-100Mbps
Coverage	National UK
Contract Period	1-5 years
Customer Service	Central support and proactive management provided 24 x 7 x 365

Benefits of Implementing TANet IP VPN Services

Flexibility - Connect numerous geographically dispersed locations with Any-Any connectivity, from remote branches to Central data centres and head office. 64Kbps to 1000Mbps.

Migration - Customers planning a technology refresh in the WAN no longer face the issue of having to interface between different protocols at each location. Fibernet's TANet IP VPN service provides the seamless connectivity over all access types including Dial*, DSL, SDH & Ethernet.

Applications - Planning for future applications has never been easier. True convergence of Voice, Video and Data can be realised by implementing specific Classes of Service to enable the priority of various applications.

Scalability - Customers no longer need to purchase unnecessary bandwidth. Classes of Service ensure that bandwidth only needs to be provisioned according to traffic importance.

Management - Fibernet Managed IP VPN service provides customers with a single point of contact for all WAN requirements. Fibernet proactively manage, maintain, support and configure the entire WAN to meet specific requirements.

Resilience - Fibernet have built our TANet IP VPN Core infrastructure using the latest standards based MPLS and RPR technology delivering superior service availability and resilience. We back this up with comprehensive Service Levels that match your specific network requirements.

* Future option

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Service availability may vary by location. Errors and Omissions excepted. Contents correct at time of press.

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