wavenet
wholesale

MPLS
Product Guide

Resilient, secure and scalable data services

MPLS Solutions

Wavenet MPLS (Multiprotocol Label Switching) is a high performance technology that can deliver data, voice, and video to any location over a fully meshed private network.

The technology supports all connection types including Leased Lines, ADSL, EFM and Ethernet. It is also highly scalable making it easy to expand IT infrastructure through multiple sites, remote workers and new applications. By assigning labels to data, MPLS prioritises traffic., this allows systems to perform more reliably and efficiently, especially business-critical and delay sensitive applications like VoIP.

Wavenet Core Network Structure

Wavenet's Core Network is a carrier-grade, fully resilient infrastructure.
Our core is a fully redundant Cisco Network with presence in multiple Datacentres across the UK.

LINX DE-CIX amsix amsterdam internet exchange IX MANCHESTER Powered by LINX

MPLS for Business

Multiprotocol Label Switching focuses on traffic by designating tags on data. This allows systems to function more thoroughly and dependably. This is great for companies using delay-sensitive and business-critical applications like VoIP.

Multiprotocol Label Switching is a cost-effective alternative for small and medium enterprises. It allows your workforce to interact efficiently and securely between customers, sites, staff, and suppliers.

It provides a secure, reliable and cost effective way to share applications and information between offices, remote workers, vendors and even partners. By introducing MPLS, businesses can streamline operations, improve productivity of staff and lower the total cost of ownership.

Wavenet MPLS is powered by a fully managed Cisco router at the customer site to connect to our next-generation, resilient Cisco MPLS cloud core network.

Is MPLS right for your business?

MPLS allows businesses to create a private network that is fast, reliable, and simple to administer.
MPLS can help your business gain a competitive advantage and turn IT into a benefit, not a cost burden.

We can help you realise the benefits of MPLS, especially if your business requires any of the following:

- Any-to-any connectivity (i.e. meshed or partially-meshed network)
- The ability to prioritise different applications
- Future proof architecture that can rapidly change to business needs
- LAN-to-LAN or WAN-to-WAN connectivity over private networks
- Reduced networking costs and improved speed-to-market for its products

Benefits of MPLS

Performance
The speed of information transferred between sites will rapidly improve with MPLS. Data will not be sent over the Internet and therefore not require encryption/decryption. By assigning labels to data packets, MPLS can optimise performance and deliver guaranteed QoS (Quality of Service). Lower packet loss means faster response for applications.

Productivity
Business critical traffic (e.g. CRM) will perform more efficiently thus improving service levels, staff outputs and customer experience. By simplifying infrastructure and administration, IT staff can focus on functions more closely related to the everyday running of your business.

Resilience
With high availability, if a major link in the MPLS network goes down, traffic will quickly route to an alternative path. If an entire site has an outage, the others will not be affected, meaning any network downtime is greatly reduced within your business.

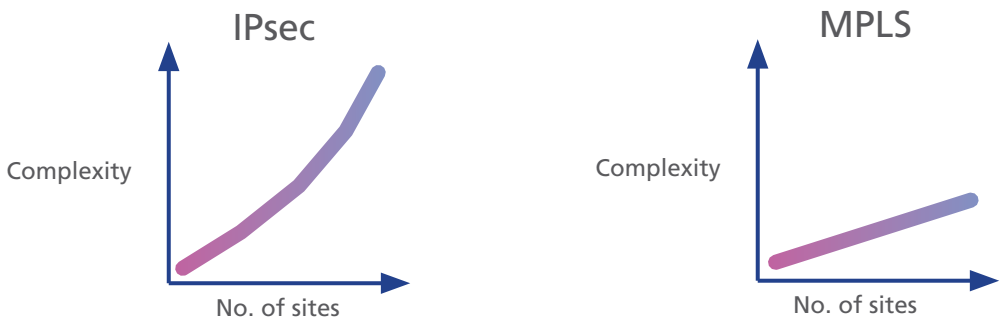
Reliability
Through ongoing support we pro-actively monitor your MPLS network, ensuring any infrastructure issues are identified and resolved before they effect your business critical applications. Our Technical Support Team will promptly address any outages and pro-actively investigate alerts.

Security
Information transferred between sites will be done via an integrated private network not the public Internet, ensuring maximum security for your confidential business data.

Scalability
Ease of building on IT infrastructure. When your business grows, new sites, remote workers and applications can be rapidly configured and deployed with minimal effort and cost.

MPLS vs Traditional Networking

Traditional technologies such as IPsec make connecting multiple sites time-consuming and expensive. Making changes to an IPsec WAN requires changing every rewall at every site; the administration overhead increases exponentially with the number of end points.



Wavenet MPLS offers outstanding scalability, so configuring and deploying sites can be done with ease. With MPLS your remote sites are as easy to connect into the LAN at HQ as the PC in the office. Inter-site data does not pass over the Internet, so only a single firewall is required at the point of Internet breakout.

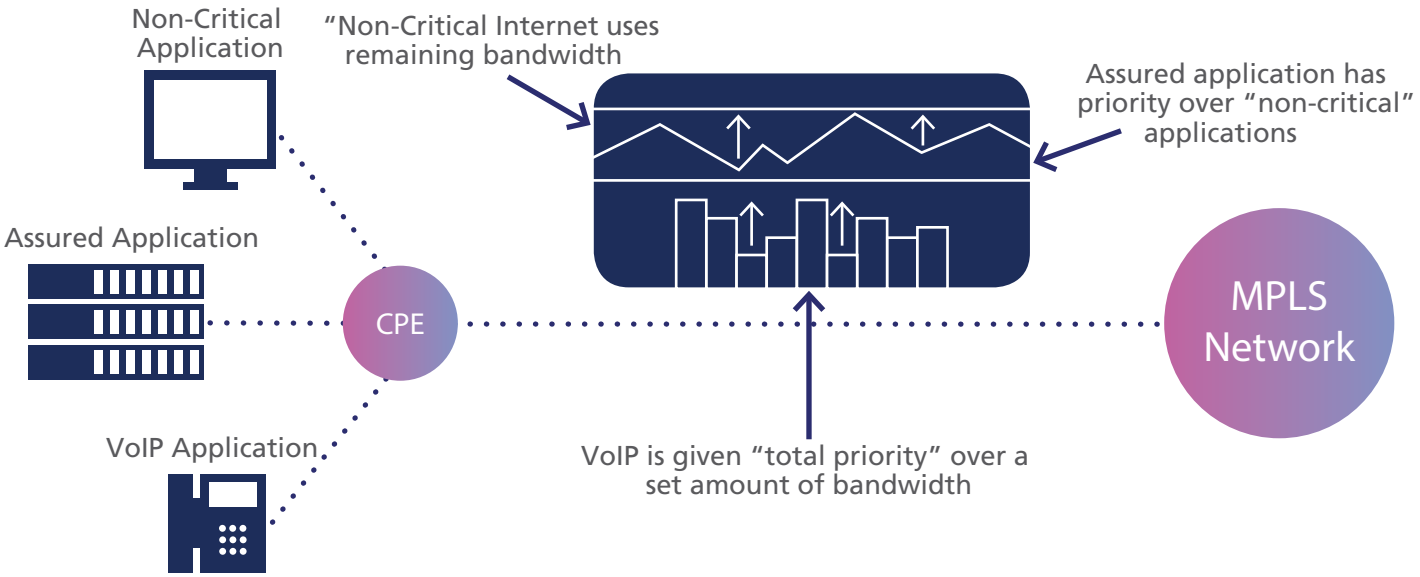
Typical MPLS WAN Network

Data Prioritisation in MPLS

Wavenet MPLS can prioritise your traffic to best utilise the performance of your bandwidth. By assigning labels to the data according to the importance of delivery speed, priority is given to business critical or delay sensitive traffic. For example, a real-time VoIP application can be given priority over delay-tolerant traffic such as email, ensuring that the VoIP user does not experience poor call quality at any time.

It is features like Data Prioritisation that make MPLS such a great investment for businesses, making it effortless to create a system that makes your business run efficiently, all day, every day.

Example of Data Prioritisation with MPLS



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