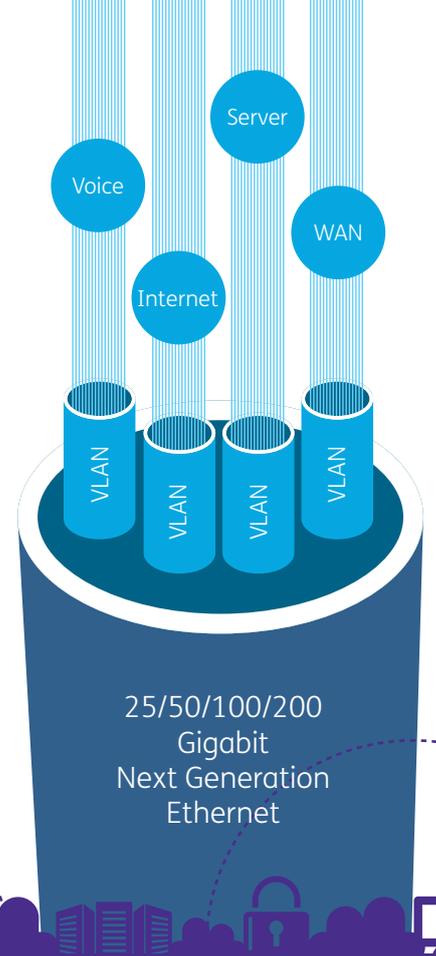Network

Your own Private Network

Schools Broadband applies VPLS and MPLS technology to its private networks, allowing multi-site Academy Trusts to connect all their schools securely, regardless of location. It also allows schools to share multiple services such as voice, video and data.

VPLS, (Virtual Private LAN Services) and MPLS (Multi-Protocol label Switching) are ways of routing traffic across networks allowing geographically spread locations to connect together on the same Local Area Network (LAN).

Whilst multiple services will appear to be on the same Local Area Network, the VPLS/MPLS technology can keep each service separate, providing added security, simplicity, economy of scale and quality of service.

Server

Voice

WAN

Internet

VLAN   VLAN   VLAN   VLAN

25/50/100/200
Gigabit
Next Generation
Ethernet

Guaranteeing end-to-end quality of service

Our network fully supports end-to-end quality of service (QOS), and because of the way VPLS/MPLS runs over it, this enables your network administrators to guarantee different speeds and bandwidth allocations for different applications. This guarantees your applications will work quickly and effectively 24 hours a day, 7 days a week, 365 days a year. Your network administrators can even manage this themselves.

Any applications hosted on a remote site or in our data centre will work 100% of the time at the required speed, no matter how busy your WAN connection is.

We provide either layer 2 based (VPLS) or layer 3 based (MPLS) technologies to allow schools and Academy Trusts to extend networks across multiple sites in your own private cloud.

schools
broadband

Delivering savings all round

The VPLS and MPLS technology we use means you can manage multiple school networks, servers and devices across multiple locations from one central point.

Centrally hosted Windows Active Directory and file storage is a good example of this. Typically a primary school would purchase its own server for the required Microsoft functions on their network. This might cost circa £2000 and will require upgrading every 4 years. A secondary school could pay £20,000 for the storage of larger quantities of data.

For a 10 site Multi Academy Trust with 3 secondary schools and 7 primary schools, this would equate to £74,000 and would require future refreshments.

If just one of the secondary schools installed a Schools Broadband high capacity link with hosted servers, the cost could be easily halved. This represents large savings for Academy Trusts in capital spend and ongoing maintenance and software licences.

Multiple 10Gb Direct Links to the Internet

Resilient
Multiple Firewalls

CONNECTION

Resilient
Multiple Filters

Education specific internet links

Resilient and Secure

Benefits of a Private Network

Resilient internet bandwidth, shared between all sites within The Trust

- It gives you a 100% secure private data network
- It offers simplified network management making it easy to add and change sites
- It reduces administration enabling easier network planning reducing management and equipment costs
- It is a fully supported product with true end-to-end quality of service, intelligent distribution of bandwidth and six classes of service
- It reduces network complexity meaning lower latency and improved efficiency between sites (no router hops)
- Virtualisation and replication is much easier as there is no routing to contend with converged voice & data networks on multiple connections

schools broadband™

For more information please call
01133 222 333
or email **info@schoolsbroadband.co.uk**