



# Global Virtual Private LAN Service



Avoid complexity. It's just as easy to use Ethernet in your corporate WAN as in your LAN.

Wide area connectivity has never been this straightforward. A business can now use the same Ethernet technology that is deployed in its office network to connect multiple sites in many locations around the world. Telstra International's MEF certified Global Virtual Private LAN Service (VPLS) reduces network complexity and helps to lower the total cost of implementing and managing wide area networks.

## Benefits:

### Simplified network management

Organisations that use Telstra's VPLS can connect geographically dispersed sites using the same type of equipment that is used in the local area network (LAN). There is no need to implement complex routing and IP configuration to create a wide area network (WAN). As Ethernet is a familiar technology, it is often not necessary to employ new, highly skilled internal staff to configure and manage the WAN hardware either. Network management tasks are simpler, and this contributes to a lower total cost of ownership.

### Flexible data management

Offering six classes of service, Global VPLS enables customers to differentiate between application types and prioritise business critical traffic. The service is transparent to higher-level protocols, so traffic can be transported and tunnelled seamlessly. Customers can create virtual sub-networks (virtual LANs) in order to separate data for different business processes or business functions. This can help them to manage cost allocation between separate business divisions or meet regulatory obligations. Global VPLS can also be interconnected with existing IP Virtual Private Networks to create a hybrid network or to support a phased migration to Ethernet.

### Strong fault tolerance

An any-to-any service, Global VPLS is delivered over a robust infrastructure based on Multi Protocol Label Switching (MPLS) technology. Consequently, a high degree of fault tolerance is included as standard. If a network failure occurs, traffic is automatically redirected via the best available alternative route, resulting in minimal service disruption. Also intelligent network MEF-compliant Network Interface Devices (NIDs) are installed on your sites as standard enabling end to end support, diagnostics and performance reporting.

### Privacy and routing control

Global VPLS offers the control of Frame Relay and ATM networks, combined with the higher performance of IP VPNs. The service operates at Open Systems Interconnection (OSI) layer 2, thereby allowing organisations to control their end-to-end routing and security. As a result, the solution is ideal for organisations that are reluctant to outsource the management of their IP routing for either security or compliance issues.

## Features summary:

### Global connectivity

Provides service in countries including Australia, Hong Kong, China, Indonesia, Japan, Korea, Malaysia, New Zealand, Philippines, Singapore, Taiwan, Thailand, USA and UK. We can also support PDH/SDH access where Ethernet connectivity is not available.

### Wide range of Ethernet speeds

Extends from 1Mbps to 1Gbps, with a choice of bandwidth increment options

### VPLS and IP VPN interworking

Enables organisations to run a hybrid VPLS and IP VPN network concurrently with seamless class of service (CoS) mapping

### Internet access over VPLS

Allows customers to use the private VPLS network to access the Internet, thus getting more value from their network investments

### Six classes of service

Allows customers to determine how different types of traffic are prioritised on the network

### Multiple VLAN interfaces

Enables customers to create closed user groups within the overall topology

### No restriction on routing protocols

Supports any protocol and addressing scheme

### Service level agreements

Provides customers with service levels for metrics including service delivery, availability and network performance

## A comprehensive portfolio of next-generation Ethernet services

Telstra's Global VPLS is one of three Ethernet services offered by Telstra, each of which has been awarded the MEF 9 and MEF 14 certificates from the Metro Ethernet Forum (MEF). These certifications recognise the high performance of Telstra's Ethernet services and ensures compatibility with other industry standard solutions.

Our full portfolio comprises:

- Global Ethernet Private Line (EPL)
- Global Ethernet Virtual Private Line (EVPL)
- Global Virtual Private LAN Service (VPLS)

For more information on any of these services and a quotation based on your requirements, please contact the Telstra sales team.



### TELSTRA GLOBAL VIRTUAL PRIVATE LAN SERVICE

