

# Ethernet Virtual Private Network

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

## What is Ethernet Virtual Private Network?

Telstra's EVPN suite of services allows you to establish highly resilient network connections between headquarters, data centres and office locations, or to connect geographically dispersed sites using the same type of equipment that is used in your Local Area Network (LAN). EVPN consists of the following two types of services:

- EVPL (MEF CE 2.0 certified):  
For point-to-point, point-to-multi-point connectivity
- VPLS (MEF CE 2.0 certified):  
For any-to-any connectivity

EVPN services are quick to deploy, easy to manage and offer a cost effective way to enable your business.

### Benefits

#### Flexible Bandwidth Offer

Additional bandwidth is available when your users have a sudden surge in traffic volume. EVPN offers a burstable bandwidth option which allows you to increase your traffic volume to meet your ad hoc business needs.

#### Simplified network management

There is no need to implement complex routing and IP configuration to create a Wide Area Network (WAN). As Ethernet is a familiar technology, you may not have 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, EVPN allows you to differentiate between application types and prioritise business critical traffic.

The service is transparent to higher-level protocols, so traffic can be transported and tunneled seamlessly.

You can also create virtual sub-networks (virtual LANs) in order to separate data for different business processes or business functions. This can help you to allocate costs between separate business divisions or meet regulatory obligations. EVPN can also be interconnected with existing IP Virtual Private Networks to create a hybrid network or to support a phased migration to Ethernet.

#### Highly versatile

Telstra's EVPN offers you the flexibility of three configuration options. You can choose to have a point-to-point, point-to-multipoint or any-to-any configuration to meet your different business requirements. All three options have been MEF CE2.0 certified for the E-Line and E-LAN service types.

#### Strong fault tolerance

EVPN 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. Additionally, intelligent Network Interface Devices (NIDs) are installed on your sites as standard, and enable end-to-end support, diagnostics and performance reporting.

#### Privacy and routing control

EVPN offers the control of Frame Relay and ATM networks, combined with the high performance of MPLS technology. The service operates at Open Systems Interconnection (OSI) layer 2, thereby allowing you to control your end-to-end routing and security – ideal for organisations that are reluctant to outsource the management of their IP routing for either security or compliance issues.

## Features

### Global connectivity

Available in over 20 countries globally. We can also support traditional leased lines access where Ethernet connectivity is not available.

### Wide range of Ethernet speeds

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

### EVPN and IPVPN interworking

Extends you to run a hybrid EVPN and IPVPN network concurrently with seamless Class of Service (CoS) mapping.

### Internet access over EVPN

Allows you to use the private EVPN network to access the Internet, thus getting more value from your network investments.

### Six classes of service

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

### Multiple VLAN interfaces

Enables you to create closed user groups within the overall topology.

### No restriction on routing protocols

Supports any protocol and addressing scheme.

### Burstable Bandwidth

Allows you to increase your traffic volume beyond your subscribed base bandwidth to meet ad hoc business needs.

### Service level agreements

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

## A comprehensive portfolio of next-generation Ethernet services

Telstra's EVPN is one of three Ethernet services offered by Telstra, which has been awarded CE 2.0 certification from Metro Ethernet Forum (MEF). This recognises high performance and compatibility with MEF standards compliant solutions.

Our full portfolio includes:

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



Contact your Telstra account representative for more details.

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