



# wide area networks

*High performance Ethernet links with low latency, ideal for connecting organisations' sites together into a unified network*

VERNet's WAN service offers cost effective connections between multiple customer sites in Victoria delivered through our extensive IP/MPLS network. Customers can choose between Virtual Private LANs using Layer 2 Ethernet connections or Layer 3 to connect their sites, including data centres, with speeds from 100Mb/s to 100Gb/s. WANs can be created using point to point links or a multi-point network depending on specific customer requirements. Typical applications for VERNet's WAN are:

- ▶ Inter-site data/voice/email communication
- ▶ Accessing data at another site
- ▶ Video conferencing
- ▶ Internet distribution
- ▶ Accessing applications both on-premise and off-premise

VERNet is Victoria's high bandwidth network carrier – connecting research institutes, educational facilities, medical research facilities, hospitals and Government organisations throughout the state.

## KEY FEATURES

Carrier grade core network – highly reliable  
Flexible design options – to match your needs  
Future proof – capable of 100 Gb/s and beyond  
24 x 7 network operations support





# specifications

Feature / Parameter	L2 VPLS	L3 VPN
Available service rates	From 100Mb/s to 10Gb/s, with support for 40Gb/s and 100Gb/s as required	
Physical Interface	1000 Base LX delivered for most installations	
	10G Base LR delivered for most installations	
Ethernet Frame Structure	IEEE 802.3, 802.1Q	
Frame Size	Up to 9000 Octets (Jumbo)	Up to 9000 Octets (Jumbo)
Transport Technology	Carrier grade MPLS Core	
Core Protection	MPLS path protection is provided with typically 50ms protection time	
Diversity	Physical diversity available	
SLA	Covered by SLA	
Frame Delay / Packet Latency	Target better than 45ms, less in metro areas	
Internet Protocol	N/A	IPv4 and IPv6
Routing Protocol	N/A	Static / BGP4
VLAN Transparency	Transparent to IEEE 802.1Q, 802.1AD	N/A
Technical Support	24x7 Network Operations Centre support (1300 VERNET)	