

## HOW IT WORKS

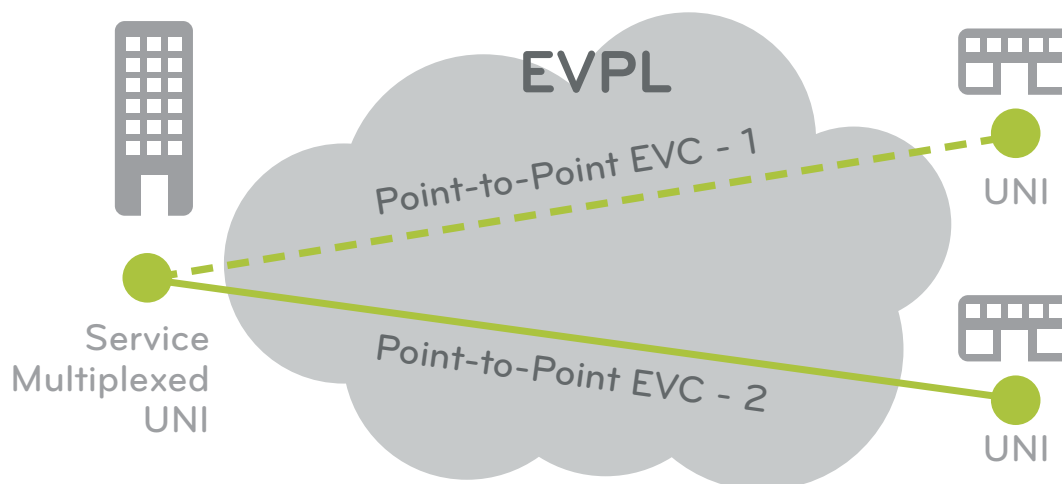
MetroEthernet Business is a Layer 2 data wholesale Ethernet access service. Service providers, cloud providers and integrators can use this service to connect their customers to a WAN or to their data centre to provide services over it.

## TECHNOLOGY OVERVIEW

MetroEthernet Business is a cost-effective secure connectivity service for running applications such as voice, internet and office-connectivity. You can offer your IPVPN or other value added services over this access.

The service consists of two queues – High Priority and Low Priority. The High Priority queue has committed bandwidth only and enables you to run your clients important applications such as voice with consistent performance. The Low Priority queue has both Excess Information Rate (EIR) and Committed Information Rate (CIR) bandwidth which can be used for other applications which are not as critical.

The service is delivered to you on an eNNI or Service Multiplexed UNI (SMUNI) with us at your point-of- presence. MetroEthernet Business services use an Ethernet Virtual Connection that is configured as Ethernet Virtual Private Line (EVPL).



SLA Options: MetroEthernet Business is available with two SLA options. The 'Enhanced' SLA is ideal for business critical applications with 24 x 7 coverage for fault restoration and periodic status updates. The 'Standard' SLA is suited for non-critical business scenarios with fault restoration within business hours.

Click here for our full SLA information. <http://vectorcomms.co.nz/solutions/service-level-agreement>

## SERVICE SPECIFICATIONS

EVC Attributes					
Bandwidth Profile Type	Low Priority Committed Information Rate (CIR)				
	Low Priority Excess Information Rate (EIR)				
MEB Profiles	High Priority Committed Information Rate (CIR) <sup>1</sup>				
	Profile (LP/HP)	Low Priority CIR	Low Priority EIR	High Priority CIR Only	Circuit Max Bandwidth (Mbps)
	100-2.5	2.5	97.5	2.5	102.5
	100-10	2.5	97.5	10	110
	100-20	2.5	97.5	20	120
	100-30	2.5	97.5	30	130
	100-40	2.5	97.5	40	140
	100-50	2.5	97.5	50	150
	100-60	2.5	97.5	60	160
	100-70	2.5	97.5	70	170
	100-80	2.5	97.5	80	180
	100-90	2.5	97.5	90	190
	100-100	2.5	97.5	100	200
	200-2.5	2.5	197.5	2.5	202.5
	200-10	2.5	197.5	10	210
	200-20	2.5	197.5	20	220
	200-30	2.5	197.5	30	230
	200-40	2.5	197.5	40	240
	200-50	2.5	197.5	50	250
	200-60	2.5	197.5	60	260

<sup>1</sup> Requires traffic to be tagged with PCP = 1, 2, 3, 4, 5, 6 or 7.

MEB Profiles	Profile (LP/HP)	Low Priority CIR	Low Priority EIR	High Priority CIR Only	Circuit Total Bandwidth (Mbps)
	200-70	2.5	197.5	70	270
	200-80	2.5	197.5	80	280
	200-90	2.5	197.5	90	290
	200-100	2.5	197.5	100	300
	Max-2.5	2.5	<997.5*	2.5	1000
	Max-10	2.5	<997.5*	10	1000
	Max-20	2.5	<997.5*	20	1000
	Max-30	2.5	<997.5*	30	1000
	Max-40	2.5	<997.5*	40	1000
	Max-50	2.5	<997.5*	50	1000
	Max-60	2.5	<997.5*	60	1000
	Max-70	2.5	<997.5*	70	1000
	Max-80	2.5	<997.5*	80	1000
	Max-90	2.5	<997.5*	90	1000
	Max-100	2.5	<997.5*	100	1000
CE-VLAN ID Preservation	Yes				
CE-VLAN CoS Preservation	Yes				
Unicast Frame Delivery	Deliver Unconditionally				
Multicast Frame Delivery	Deliver Unconditionally				
Broadcast Frame Delivery	Deliver Unconditionally				
Layer 2 Control Protocol	Spanning Tree Protocol (STP) Tunnel CDP Tunnel VTP				

Note: Max bandwidth = LP CIR + LP EIR + HP CIR

\* Max profiles have EIR up to 997.5, however, if High Priority CIR is in use this figure will be reduced by the amount of HP CIR traffic

UNI Attributes	
UNI Speed	1 Gbit/s
Physical Medium	1 Gbit/s – IEEE 802.3ab 1000Base – T (Copper) * 1 Gbit/s – IEEE 802.3z 1000Base – LX 1 Gbit/s – IEEE 802.3z 1000Base – BX-U/D
Mode*	Auto*, Full Duplex
MAC Layer	IEEE 802.3 - 2005
Service Frame Format	Untagged, single tag (802.1Q)
MAC Address Limit	500
UNI MTU Size	2000 bytes
Service Multiplexing	No
Bundling	No
All-to-one Bundling	Yes

\* Default values

## SERVICE PERFORMANCE

	CIR	EIR
Availability	99.9%	
Frame Delay	≤5ms <sup>2</sup>	N/A
Frame Jitter	≤2ms <sup>2</sup>	N/A
Frame Loss	≤0.1%	≤2%

<sup>2</sup> Within the same Metro area.

All service performance values applicable for 99.9% of the frames within a measurement interval of five minutes.