

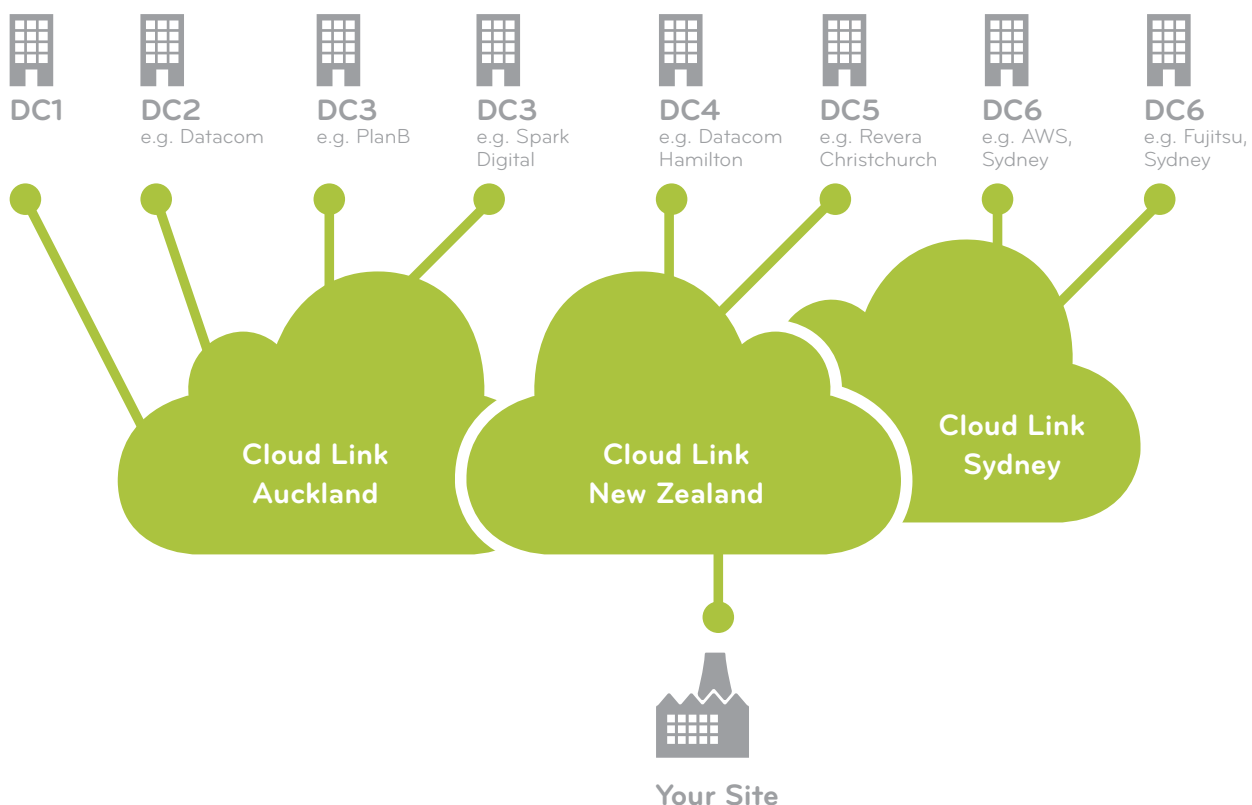
HOW IT WORKS

Our Cloud Link service provides you a port at your office location in Auckland or anywhere in New Zealand. Once you have set up ports, you can connect to your required data centres. There is no restrictions on the number of connections to a port. As your cloud requirements change and you need to connect to new data centres, simply add your new data centre.

With over 41 data centres on the platform in New Zealand and 22 in Australia, you can have multiple services on a single network or add redundancy for your cloud applications using different connected data centres.

TECHNOLOGY OVERVIEW

Our Cloud Link service consists of dedicated access to domestic and international Internet beyond our network, and must be used with any network access service from Vector Communications. We cannot guarantee routing paths.



SERVICE SPECIFICATIONS

Cloud Link Bandwidth Attributes	
Bandwidth Profile Type	Committed Information Rate (CIR)
Bandwidth Profile	10 Mbit/s 100 Mbit/s 1 Gbit/s
Rate Enforcement	Ingress rate policing at Layer 1 with Excess Burst Size of 1500ms
EVC Maximum Transmission Unit (MTU) size	9000 bytes
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	Tunnel IEEE 802.3x MAC Control Frames Tunnel IEEE 802.1x Port Authentication Tunnel Generic Attribute Registration Protocol (GARP) Tunnel Spanning Tree Protocol (STP) Tunnel a protocol multicast to all bridges in a bridged LAN Tunnel Link OAM Tunnel STP (Cisco BDPU) Tunnel CDP Tunnel VTP Tunnel* or Peer Link Aggregation Control Protocol (LACP)

*These service components have impact on pricing depending on the option chosen

Cloud Link Port Attributes

UNI Speed	1 Gbit/s, 10 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 1 Gbit/s – IEEE 802.3z 1000Base – EX 1 Gbit/s – IEEE 802.3z 1000Base – ZX 10 Gbit/s – IEEE 802.3ae 10GBase – LR* 10 Gbit/s – IEEE 802.3ae 10GBase – ER
Mode*	Ingress rate policing at Layer 1 with Excess Burst Size of 1500ms
MAC Layer	IEEE 802.3 - 2005
Service Frame Format	Untagged, single tag (802.1Q)
MAC Address Limit	500
UNI MTU Size	2000 bytes for UNI speed of 100 Mbit/s, 9000 bytes for UNI speed of 1 Gbit/s and above.
Service Multiplexing	Yes
Bundling	Yes or No
All-to-one Bundling	No

* Default values

** Available only for Cloud Link EVPL

SERVICE PERFORMANCE TARGET

Parameters	Cloud Link Auckland	Cloud Link NZ	Cloud Link Sydney
Availability	99.9%	99.9%	99.9%
Frame delay	< 10 ms	< 15 ms	< 30 ms
Frame jitter	< 8 ms	< 10 ms	< 10 ms
Frame loss	< 0.1 %	< 0.1 %	< 0.1 %

Call Vector Communications, from within NZ on 0800 826 436, or internationally on +64 9 309 9367, or email us contactus@vector.co.nz today.