

# Exchange Backhaul

Easy, reliable customer data transport solution

Exchange Backhaul service allows Service Providers to confidently extend their network to Telecom exchanges throughout greater Auckland region enabling delivery of competitive services over Telecom Wholesale and Chorus access products.

## How it works

Exchange Backhaul service provides reliable and highly scalable connections from Telecom exchanges directly back to your Point-to-Presence (POP). The service is delivered against a robust SLA enabling you to assure a quality service experience for your end subscriber.

The service is available in a Point-to-Point or Point-to-Multipoint configuration. Handover at the Telecom exchange is via an optical interface at 1 Gbit/s enabling you to readily expand their bandwidth as demand increases.

Designed to meet your need for flexibility, the service supports large frame sizes and Q-in-Q VLAN tagging, if required.

Carried end-to-end over the VectorFibre highly resilient next-generation fibre-optic network, you can be assured that your customers' traffic is in safe hands.

## Business Benefits

### Scalable

You can choose a bandwidth as low as 50Mbit/s to 1Gbit/s.

### Ease and flexibility

You have more flexibility in how you want your system configured. By working with Vector Communications you also remove system management hassles allowing you to get on with providing services to your customers.

### Cost-effective

By aggregating services you can realise savings and efficiencies as they require less equipment and management of your services. This service is not charged on distance, so you can connect all exchanges onto the network and have them delivered as a single data stream.

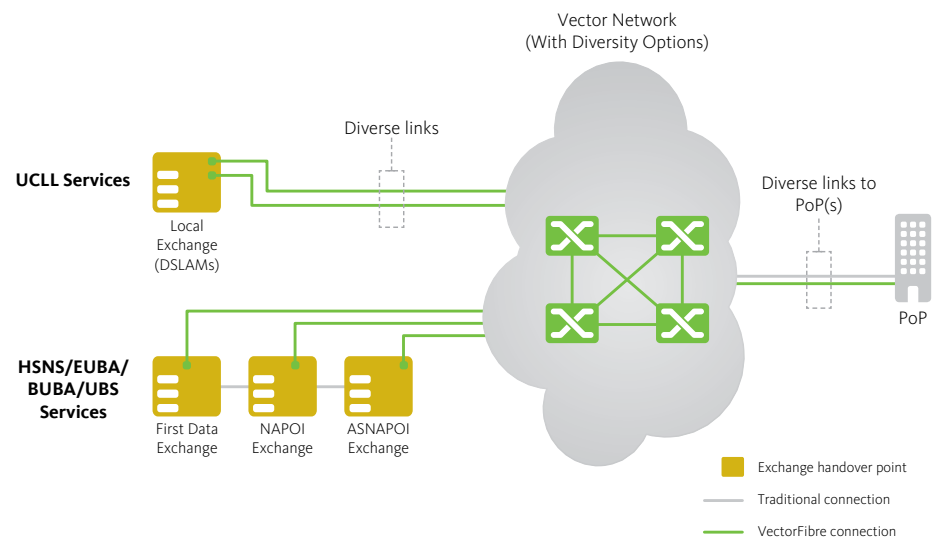
### Diversity

Diversity options are available from the Handover Point from Telecom to the Point of Presence to suit your requirements which will increase availability and remove single points of failure.

## Technology overview

At your POP, the service can be presented on either discrete optical interfaces for each Telecom exchange or on a standard Gigabit Ethernet Service Provider Port (choice of separate Ethernet Virtual Circuits per exchange or as a single multiplexed service).

Dual access option is available for access to Chorus services on request, providing additional service protection and improved availability for critical exchanges.



## Service Specification

UNI Service Attributes	
Physical Medium	Fibre (SC or LC connector): 1000Base-SX/LX/ZX (1Gbit/s)
Mode	Full Duplex
MAC Layer	IEEE 802.3 - 2002
UNI MTU Size	1522 bytes (larger MTU sizes available upon request)
Ingress Bandwidth Profile Per UNI	50, 100, 200, 500, 1000 Mbit/s (Committed Information Rate)
Egress Bandwidth Profile Per EVC	50, 100, 200, 500, 1000 Mbit/s (Committed Information Rate)

EVC Service Attributes	
CE-VLAN ID Preservation	Supported
CE-VLAN CoS Preservation	Supported

### Service Performance

Availability	99.9% (access protection option delivering higher availability upon request)
Class of Service Identifier	802.1p Class 1, only one CoS is supported through our network. Prioritisation to be performed by customer, as required.
Frame Delay <sup>1</sup>	< 20 ms (95th Percentile)
Frame Jitter <sup>2</sup>	< 10 ms (95th Percentile)
Frame Loss	< 0.1%

- 1 Frame delay measurements do not include ingress/egress queuing and blocking delays as the effect of these parameters varies based on the bandwidth profile of the UNI.
- 2 Frame jitter measurements do not include ingress/egress queuing and blocking delays as the effect of these parameters varies based on the bandwidth profile of the UNI.

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Make sure your business gets the full benefit of Exchange Backhaul as soon as possible.  
Call Vector Communications on **0800 826 436** or email [contactus@vector.co.nz](mailto:contactus@vector.co.nz) today.