

# SDH Transport Service

High performance transport solution with carrier-grade service delivery.

The VectorFibre SDH Transport Service provides carriers and large organisations with a very high performance data transport capability. Your data is carried on our SDH (Synchronous Digital Hierarchy) network, giving you reliable, low-latency access to strategic locations all over Auckland and to the global Southern Cross Cable Network.

## How it works

The VectorFibre SDH Transport Service is designed to meet the most demanding data transport requirements. This includes direct, fully diverse access to both interconnection points of the Southern Cross international cable system.

The VectorFibre SDH network is extremely reliable, based on ITU Standard G.957. Enhanced features such as access and equipment protection ensure your communication will not be risked by a single point of failure anywhere. Our effective processes, network monitoring and management mean you can bank on consistent service quality and performance.

You'll find it very easy to do business with Vector Communications. Our pricing, billing and processes are simple and transparent. The way our capabilities are structured into standardised products, you can start using VectorFibre SDH network with an exceptionally quick turnaround time.

## Business Benefits

### Carrier-Grade Reliability

You can use optional access protection options to achieve service availability up to 99.999%.

### Scalability

You can choose the bandwidth you require, from STM-1 to STM-256 (155Mbit/s to 39.813Gbit/s). You can easily upgrade your bandwidth when needed.

### Total Diversity

Your solution can be architected to provide a fully diverse path end-to-end, so there is no need to contract another carrier to achieve diversity.

### Strategic Coverage

The VectorFibre network is strategically located, giving you direct access to the international Southern Cross Cable Network, as well as all the key business locations in and around Auckland.

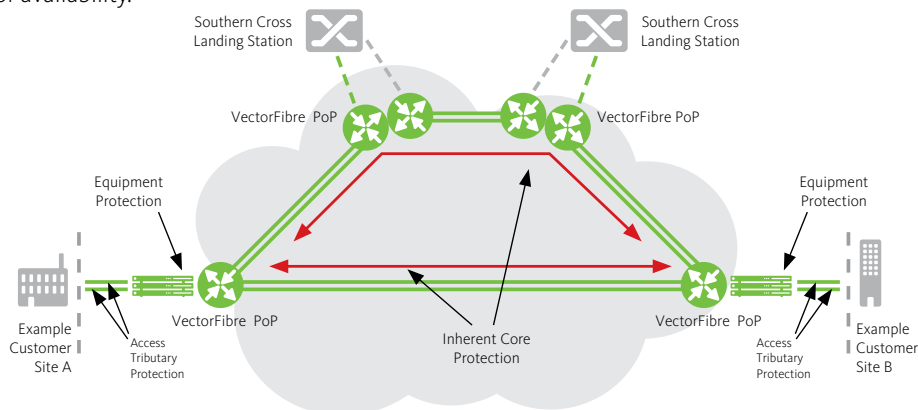
### Peace of Mind

The very low latency of our service gives you the peace of mind to run mission critical applications on the VectorFibre SDH network.

## Technology overview

The VectorFibre network can connect different sites in Auckland through our multiple points of presence (PoP). Because our network forms a ring, there is always more than one potential path transported data can use to reach its destination.

The various other protection options are designed to give you even higher levels of availability.



Note: The network architecture shown in the figure above is only indicative of the actual network.

## Technical Specification

Bandwidth Options	DS3 (44.768 Mbit/s)/ E3 (34.368 Mbit/s) STM - 1 (155 Mbit/s) STM - 4 (622 Mbit/s) STM - 16 (2.488 Gbit/s) STM - 64 (9.953 Gbit/s) STM - 256 (39.813 Gbit/s) - Please contact your account manager				
Network/Port Monitoring	24/7				
Target Service Availability	Core Availability Level: 99.999% With Tributary Protection: Up to 99.999%* Without Tributary Protection: 99.9%				
Redundancy/Protection	Fully protected, physically diverse tributaries.				
Applicable Standards	ITU-T Rec G.957, G.958, G.691				
Interfaces	DS3/E3	STM-1	STM-4	STM-16	STM-64
	1.0/ 2.3 Coax Connector	Short haul interface (S1.1)	Short haul interface (S4.1)	Short haul interface (S16.1)	Short haul interface (S64.2) Short Reach Interface (I.64.1)
Demarcation Points	Customer Sites: Optical connectors delivered to customer equipment, connector type according to customer's specification Southern Cross: Fibre spliced directly into allocated Southern Cross fibres				

\*This level of availability requires full end-to-end protection, which may not be achievable in some environments.

Make sure your business gets the full benefit of SDH as soon as possible.

Call Vector Communications on **0800 826 436** or email [contactus@vector.co.nz](mailto:contactus@vector.co.nz) today.