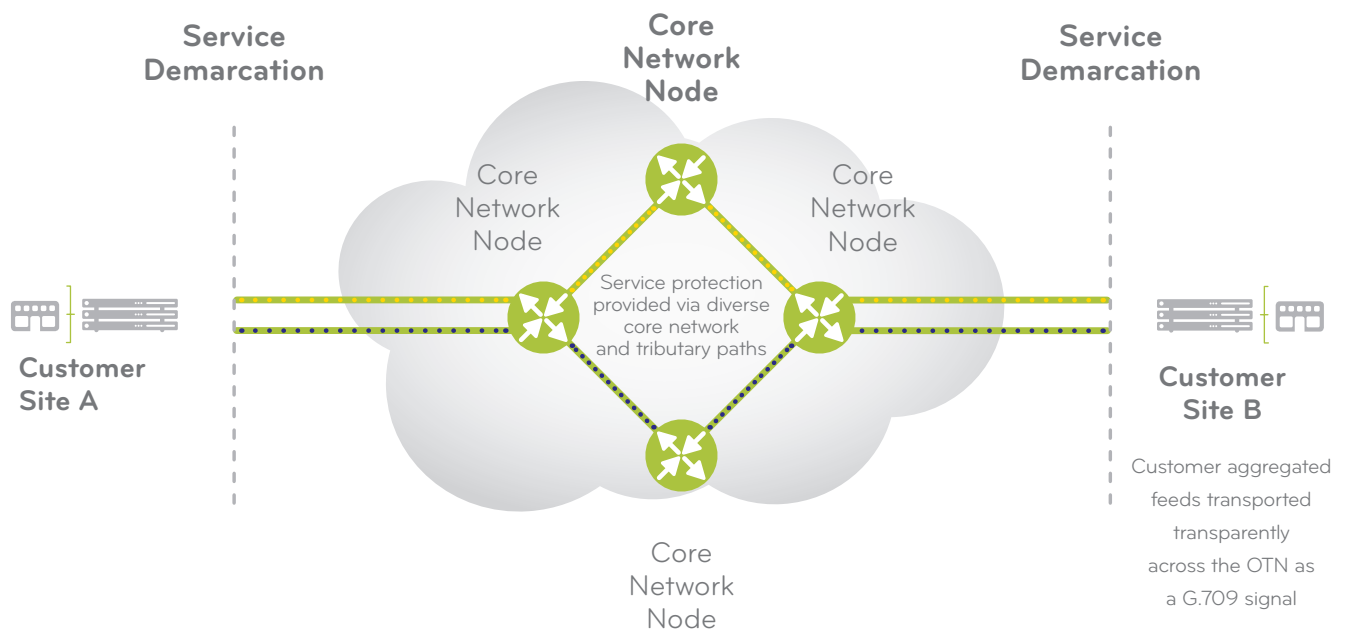


## HOW IT WORKS

Managed Wavelength services are supported by the VectorFibre Optical Transport Network. This state of the art network is based on the internationally accepted standard for optical transport; ITU-T G.709. We use Dense Wavelength Division Multiplexing to transport up to 40 optical signals of different wavelengths onto a single fibre pair, enabling data transfer speeds ranging from 2.5 to 40 Gbit/s. The signals are mapped transparently onto the different wavelengths, without touching user data.

## TECHNOLOGY OVERVIEW

Managed Wavelength provides for the transparent transportation of large quantities of data between two locations. You can configure your own transmission and protection protocols or alternatively we can provide a range of protection options to match your availability requirements.



## SERVICE SPECIFICATIONS

### Performance Characteristics

Latency	< 2ms
Jitter	< 2ms
Bit Error Rate	$10^{-12}$
Demarcation Points	Optical demarcation, with a patch panel installed at the customer site as directed. Connection type SC, unless otherwise specified.
Service Availability	From 99.9% (depending upon protection options)

### Redundancy / Protection Options

Core and Access Protection	Optical layer, sub-50ms protection switching upon loss of signal or exceeding pre-defined thresholds can be provided at both core and access levels. Please contact your Account Manager to discuss in detail your specific protection requirements.
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### Service and Interface Specification

2.5 Gbit/s	OTU1, STM-16
10 Gbit/s	Please contact your Account Manager to discuss your options
40 Gbit/s	OTU3, STM-256, 40GE (Please see your Account Manager)

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