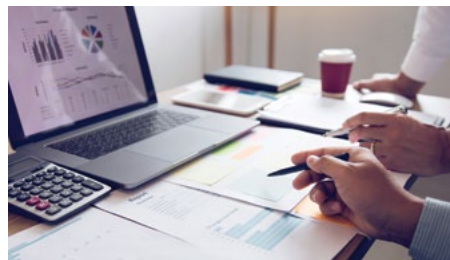# Wavelength

Get the speed and performance you need with VicTrack's wavelength service. Our powerful optical wavelength technology provides dedicated, high-speed data connections, allowing multiple data streams to be transmitted simultaneously.

Experience fast connectivity like never before. VicTrack's wavelength service provides businesses with high-speed, private, and secure bandwidth.

Reliability

With VicTrack's wavelength services, you get secure and reliable connectivity delivered over our exceptional infrastructure. Our network is super dependable, and we offer various service level options so you can manage and protect your important data and applications.

Cost effective and flexible

Wavelength services support multiple customer protocols to transfer large volumes of data between physically separated sites. This allows organisations to create a cost-effective point to point wavelength connection, maximising asset use and reducing overall ownership expenses.

Scalability

VicTrack's Optical Transport Network is designed to deliver outstanding performance, capable of handling service speeds of up to 100Gbps. Our wavelength services are perfect for customers who need ultra-high bandwidth for their business data transfer and applications.

VicTrack

VicTrack uses advanced Optical Networking Technology over our fibre infrastructure to ensure first-rate performance. Our technology can easily provide additional bandwidth or wavelengths whenever you need it.

VicTrack's wavelength services ensure that customers have their own dedicated and uninterrupted bandwidth. Unlike other services that share bandwidth with multiple users, our wavelength transmission services provide 100 per cent committed bandwidth exclusively for the customer, without any sharing.

Setting up your own OTN solution is cost-prohibitive, time-consuming and requires specialised equipment and technical expertise. However, with VicTrack's wavelength services, you don't have to worry about that. We provide full support through our 24/7 Melbourne-based Network Management Centre (NMC), allowing you to focus on your core business without dealing with technical complexities. With an experienced team and strong service level agreements, VicTrack ensures excellent support and service protection for our wavelength services.

VicTrack wavelength services can accommodate different types of interfaces, making them flexible for customer connectivity.

Key features	Description
Coverage	VicTrack has one of the largest networks within Victoria, which spans the majority of rail corridors and is within close proximity of NBN POIs, enabling our customers to easily interconnect on a much larger scale.
Low latency	VicTrack's wavelength services have low latency and minimal packet loss, which are essential for time-sensitive applications, such as real-time traffic and remote-control systems.
Security	VicTrack's wavelength services provide a direct, private connection between two locations, reducing the risk of data breaches or unauthorised access.
Reliability	VicTrack's wavelength services are delivered over our own secure and reliable infrastructure, and services provide carrier grade reliability. The inherent reliability in our fibre optic network, combined with a range of service level options, enables customers to manage and protect their mission-critical data and applications.
Superior grade of service	VicTrack 's wavelength service is delivered over our OTN, which provides dedicated bandwidth for uncompromised quality.
Scalability	The VicTrack transmission network is dimensioned for exceptional performance and is capable of service speeds up to 100Gbps. Wavelength services are ideal for customers that require very high bandwidth to support business data transfer and applications.
Simple and time efficient	Implementing and managing a 'DIY' OTN solution can be time consuming and requires significant technical expertise, and investment in equipment. VicTrack's wavelength services solution is fully supported by our own Melbourne-based NMC on a 24/7 basis, allowing customers to focus on their core operations.
Cost effective and flexible	Wavelength services support multiple customer protocols to transfer large volumes of data between physically separated sites. This allows organisations to create a cost-effective point to point wavelength connection, maximising asset use and reducing overall ownership expenses.
Choice of interfaces	VicTrack wavelength services provide a range of interface types to satisfy a wide range of connectivity options, enabling core network backhaul and connectivity to data centres.
Support and service agreements	VicTrack's wavelength services are supported by an experienced team of technical experts within our 24/7 Melbourne-based NMC as well as leading service levels under our service level agreements that are separated out based on level of protection of the service.

For more information

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VicTrack

Service attribute	Ethernet		OTN	
Interface	Ethernet		OTN	
Service speed	10 Gb/s		OTU-2e	
	100 Gb/s		OTU-4	
Interface type	**10G**	**Distance (kms)**	**OTN 2/2E**	**Distance (kms)**
	10G BASE LR/LW	10	P1S1-2D2	10
	10G BASE ER/LW	40	P1I1-2D1	40
	10G BASE ZR/ZW	80	P1I1-2D1	80
	100G	**Distance (kms)**	**OTN 4**	**Distance (kms)**
	100G BASE SR-4	0.1	100G BASE SR-4	0.1
	100G BASE LR-4	10	4L1-9D1	10
	100G BASE ER-4	40	4L1-9D2	40
Frame structure	IEEE 802.3-2015		ITU-T G.709	
Transport topology	DWDM		DWDM	
Oversubscription	None		None	
Frame loss target	Zero		Zero	
Maximum transmission unit	9600 bytes		Not applicable	
VLAN transparency	VLANs (IEEE 802.1Q) and Q-in-Q (IEEE 802.1AD)		Not applicable	
Optical connector	SC-APC		SC-APC	
Fibre type	G.652 single mode		G.652 single mode	
Protections and diversity options[1]	Unprotected services (default) Service protection Diverse services			
Service availability[2]	Unprotected services - 99.7% (12 month rolling window) Protected services – 99.95%			

1 - Protection options are subject to availability

2 - Availability target applies where the service is delivered over the VicTrack fibre network

For more information

VicTrack