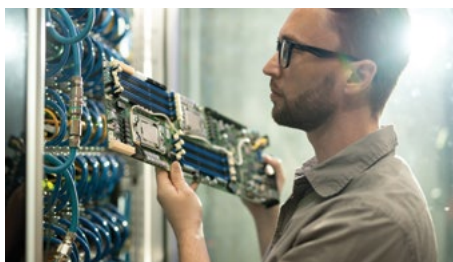


# IPWAN

VicTrack provides reliable, secure and high-speed connectivity. Our services are configured to fit your needs, so you can enjoy a hassle-free connection.

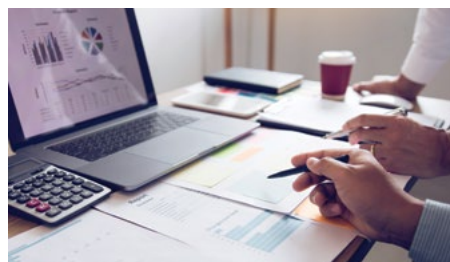


VicTrack's services are scalable and designed to offer what you need now and into the future. Our network is also one of the largest in Australia spanning most of the state's rail corridors.



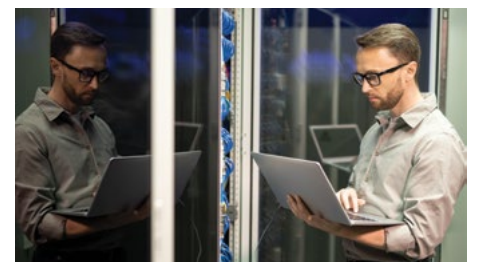
## Scalable options

VicTrack offers scalable options with a range of bandwidth options, from 10Mb to 10Gbps, to suit your needs. You can make network changes, add new sites, or increase bandwidth without causing any disruptions to your network's smooth operations.



## Cost effective

With VicTrack taking care of your Wide Area Network (WAN), you can save large upfront equipment costs and ongoing operational and maintenance costs, allowing you to focus on your business operations.



## High performance

VicTrack's solution delivers lightning fast speeds and rock-solid reliability, perfect for today's demanding high-end enterprise applications. Experience class of service traffic prioritisation and high availability, to meet your business requirements with ease.

VicTrack's Victorian network coverage is expansive, spanning across most of the state's rail corridors and key locations in Melbourne and Geelong as well as in regional areas including Ballarat, Bendigo, Traralgon and many more.

Our services are scalable, designed to offer you what you need now and into the future. Easily expand your network sites without the hassle of managing routing functions and enjoy a robust and fully connected Layer 3 network while saving on costs.

VicTrack's IPWAN services free up your time to focus on what matters most – your core business. With IPWAN services offering reliable and protected connections through VicTrack's MPLS platform, say goodbye to the complexities of managing routing functions and enjoy potential cost savings.

Choose from bandwidth options ranging from 10Mb to 10Gbps. Make network changes, add sites, or increase bandwidth without disrupting your overall network operations.

Every business can rest assured knowing VicTrack's IPWAN services are delivered over our secure and reliable infrastructure. Customers are able to prioritise certain business traffic for preferential treatment across the VicTrack network.

Our team of technical experts in our 24/7 Melbourne-based Network Management Centre have your back. Count on us to provide outstanding service and support under our service level agreements. Let us take care of your network, while you focus on growing your business.

Key features	Description
Scalable	Bandwidth options ranging from 20Mb to 10Gb. Network changes (including addition of sites and bandwidth increases) can be done without disrupting the overall network operation.
Managed WAN	VicTrack manages the customer's WAN, ensuring that the best routes are used to transfer data between customer sites.
Coverage	VicTrack's Victorian network coverage is among the state's largest and spans most of the rail corridors and key locations in Melbourne and Geelong as well as in regional areas such as Ballarat, Bendigo, Traralgon and others.
Reliability	VicTrack IPWAN services are delivered over VicTrack's own secure and reliable infrastructure that offers service protection within the MPLS platform by default.
High performance	The solution supports high availability, meeting the demanding requirements of today's high-end enterprise applications.
Quality of service	This enables customers to prioritise certain business traffic for preferential treatment across the VicTrack network. A range of classes are available to best suit the needs of the business applications.
Support and service agreements	VicTrack IPWAN services are supported by an experienced team of technical experts within our 24/7 Melbourne-based Network Management Centre as well as leading service levels under our service level agreements.

## For more information

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Service attribute	Service features
<b>VPN features</b>	
Topology	Full Mesh (Multipoint to multipoint)
Supported speeds^	Mbps: 20, 50,100, 200, 500 Gbps: 1, 2, 5, 10
IP protocol	IPV4
Maximum number of VPN endpoints	510
QoS (Quality of Service)	a) Static – 5 options available b) Dynamic
Routing protocols	Routing protocols are applied per endpoint The following protocols are selectable: <ul style="list-style-type: none"> <li>• Static</li> <li>• BGP</li> <li>• OSPF</li> </ul>
Diagnostic protocols	The following protocols will be supported <ul style="list-style-type: none"> <li>• Traceroute</li> <li>• Ping</li> </ul>
IP MTU maximum supported size	9100 bytes (per service MTU, equipment port is larger if logical)
Maximum number of routes	Default 4000, extended 8000, high 20000
Note: Subject to hardware qualification	
<b>Service standards</b>	
Details	IEEE 802.3, 802.1q, 802.1AD
<b>UNI service attribute</b>	
Physical medium	IEEE 802.3 2002 physical Interface
Interface speed	1 Gbps if rate < 1 Gps; or 10 Gbps if >1 Gbps
Mode	Full Duplex
MAC layer	IEEE 802.3 2002
CE Vlan ID	Traffic may be untagged; or tagged
Maximum number of services per interface	100
Note: Subject to hardware qualification	
<b>General service attribute</b>	
CE-VLan ID & QoS preservation	No
Unicast, multicast and broadcast service frame delivery	Yes
Note: Multicast frame type only, this is not a Multicast VPN	

## Interface options

Interface speed	Supported Interfaces	Range/distance (maximum)
10/100/1000 Mbit/s	10/100/1000BaseT (100m)	100 m
1 Gbit/s	1000BASE-LX	10 km
	1000BASE-T	100 m
	1000BASE-T PoE+	100 m
10 Gbit/s	10GE-LR (10km)	10 km
	10GE-SR (70m)	70 m*
1 Gbit/s	1000Base-EX	40 km
10 Gbit/s	10G-ER	40 km

\*Option available for DC only

## CoS options

CoS Type	Option	Typical Applications / Details	Additional Information
Static	Best effort (default offering)	Non-critical applications with tolerance to latency, jitter and packet loss (e.g., internet services, mail, ftp data etc)	Default offering
	Critical	Loss tolerance services using L2VPNs	Upgrade options available at additional price per month
	Streaming	Video broadcasting, steaming, multimedia (audio/video) and CCTV applications	
	Premium	Low latency traffic types including signalling and circuit emulation traffic	
	Real time	Low latency traffic, jitter and loss tolerance such as voice and signalling services	
Dynamic	N/A	This option will dynamically allocate customer data into pre-defined CoS categories	Upgrade option available at additional price per month

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