

Layer 1 Transmission

High-capacity, resilient bandwidth for AI and data intensive workloads.

As data volumes grow and connectivity demands intensify, you need bandwidth that is reliable and scalable.

Layer 1 Transmission delivers dedicated, point-to-point capacity over a carrier-grade global network, designed for the most demanding transport requirements.

Our service provides high-capacity, reliable wavelengths across multiple transmission platforms, supporting both long-haul and metro networks with consistent performance in hard-to-reach global markets.

With access to 60+ international subsea and terrestrial cable routes, it enables secure, high-volume data movement between data centres and enterprise sites – direct, dependable and built for the long term.

Why choose PCCW Global's **Layer 1 Transmission** —



Point-to-point connectivity: High-capacity data transport integrating OTN, DWDM, DCI, SDH, and MPLS-TP to support a wide range of use cases.



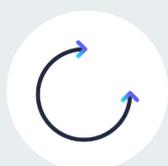
Global reach: A diverse choice of PoPs in key cities and countries, giving you access to hard-to-reach locations worldwide.



Low-latency performance: Protocol-transparent connections designed to support low latency and jitter sensitive applications with minimal transmission delay.



Flexible capacity options: Ultra-high capacity services, including dark fibre pairs, with flexible commercial models such as lease or IRU.



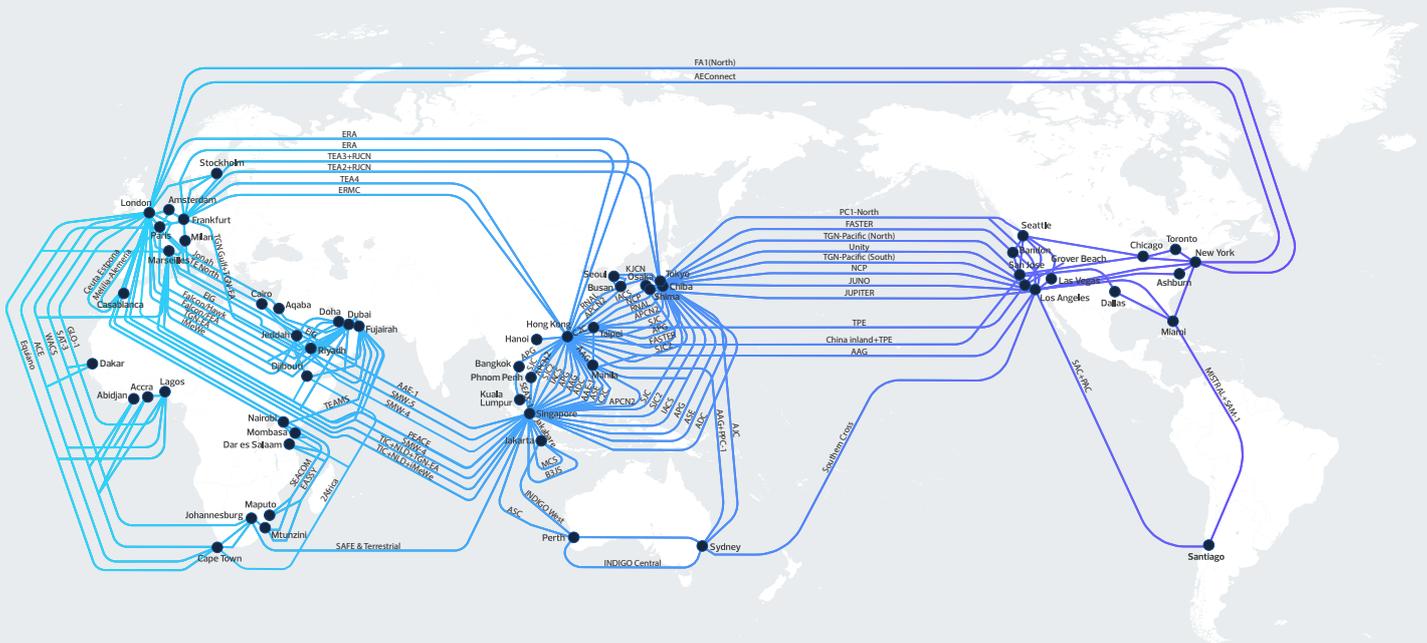
Resilient by design: A fully resilient global network with access to diverse subsea cable systems and terrestrial routes.



Guaranteed service levels: 100% guaranteed bandwidth backed by stringent SLAs covering latency, packet delivery, uptime, with 24/7 monitoring and support from global NOCs.

Powered by a best-in-class network

At the heart of our Layer 1 service is a carrier-grade network, with access to 60+ international subsea and terrestrial cable routes.



What sets **PCCW Global's** network apart?

Guaranteed throughput: No congestion or contention for capacity. Eliminates bottlenecks.

Greater control: Over traffic shaping, policing and performance.

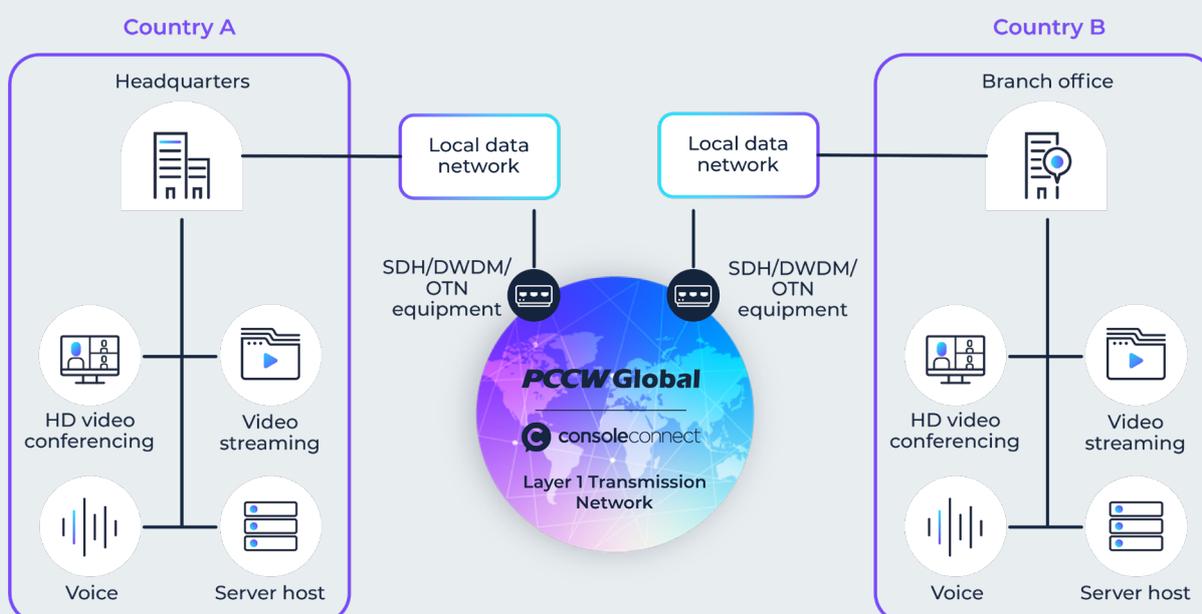
Predictable & reliable: Delivers an assured quality of service with 99.9% service availability.

Ultra-capacity: Includes 140+ PoPs, 60+ subsea cables, and bandwidth capacity up to 100 Tbps.

Layer 1 Transmission service specification

We operate one of the world's leading global and diversified transmission network.

Specification	Details
Technology	TDM, SDH, DWDM, OTN
Bandwidth	Dedicated bandwidth from Nx64kbps up to 100Gbps
Interface	V.35, G.703, T1, E1, T3, STM-1/4/16/64, OTU2, OTU4
Layer 2 protocol transparency	Support
Traffic route	Fixed cable route selected by customer
Protection	• Unprotected • 1+1 protected • 1+N protected
MTU size	Supports up to 9600 bytes



Talk to us

Australia

Level 3 | 200 Mary Street | Brisbane QLD 4000 | Australia

australia@pccwglobal.com

France

2/F 16 rue Washington | 75008 Paris | France

europa@pccwglobal.com

Greece

268 Kifisias Avenue | Chalandri, Athens | Greece

europa@pccwglobal.com

Germany

Schillerstr. 31 | 60313 Frankfurt/M. | Germany

europa@pccwglobal.com

Hong Kong

20/F, Telecom House | 3 Gloucester Road | Wan Chai | Hong Kong

hongkong@pccwglobal.com

Japan

3/F Marunouchi Mitsui Building | 2-2, Marunouchi 2-chome, Chiyoda-ku | Tokyo 100-0005 | Japan

japan@pccwglobal.com

Singapore

6 Temasek Boulevard | #41-04A/05 | Suntec Tower Four | 038986 | Singapore

singapore@pccwglobal.com

South Africa

Building 12 | 1 Woodmead Drive | Woodmead 2191 | Johannesburg | South Africa

africa@pccwglobal.com

UAE, Dubai

Office 504 & 505 Level 5 | Arjaan Business Tower | Dubai Media City | Dubai

mena@pccwglobal.com

United Kingdom

7/F, 63 St. Mary Axe | London, EC3A 8AA | United Kingdom

europa@pccwglobal.com

United States

450 Springpark Place | Suite 1000 | Herndon | VA 20170 | USA

usa@pccwglobal.com

Ready to get started?
Visit our [website](#) to get in touch

