Ethernet

North American Cables

Global Secure Layer

North American Ethernet Network

Ethernet key features

Point-to-point and multipoint
Providing you with a secure connection to one or more data centres - locally, nationally and globally.

Low latency routes
Global Secure Layer provides carrier-grade low-latency private ethernet services, connecting your network together via the shortest viable paths.

Carrier-diverse options available
GSL acquires terrestrial and subsea cable capacity from multiple fibre carriers allowing us to provide hardware & carrier-diverse cable paths on key routes.

Flexible and scalable carrier-grade network
With international coverage, our carrier-grade network will accommodate all business needs providing 100Mbit-10Gbit.

Secured end-to-end
Our dedicated, secure and privately managed connection uses data centres in major local and international locations.

Technical information

Service Details	Parametres
Service Locations	As illustrated in Ethernet map
Data	Unlimited
Access Types	• Direct cross connects in our PoP's • Fabric services » Megaport VXC » Equinix EIE » IXAU VLL » Packet Fabric VC Services can be connected with a mixture of access types
Interface Speed	100Mbps - 100Gbps (100Mbps increments)
Service Hand-Off	1G*, 10G, 25G**, 40G***, 100G***
Connection Options	Optical: Single Mode Fibre Optical: NTU Virtual: Fabric services
MTU	> 9000 exact MTU provided per circuit during delivery
Design Specifications	Latency optimised design. We opt to take the lowest latency path for primary circuits where applicable, with failover circuits for diversity and redundancy.
Service Features	• Point to point • Point to multipoint • Transparent C-VLAN passthrough
Diversity	Available • Unprotected and protected options • BiDi or multiple cross connects
Technical Support	Available 24/7 via the GSL Portal
SLA (Standard)	99.95% (where service is delivered over direct cross connect)
*NTU required ** Available in certain sites, speak with our team *** Additional costs involved	

Our solution

At Global Secure Layer, we provide secure, dedicated point-to-point or multipoint links of up to 10Gbit. GSL provides carrier-grade redundancy with private, reliable and low-latency paths. With data centres in major local and international locations, we ensure your business is globally connected.

Los Angeles <> Sydney

HAWAIKI CABLE

- The Hawaiki submarine cable is the fastest and largest link between New Zealand, Australia, Hawaii and mainland United States.
- The cable spans 15,000km and is a carrier-neutral solution.
- The Hawaiki cable has a capacity of 67 Tbps.
- The cable offers low-latency and high speed connectivity, meeting the growing demand for bandwidth in the Pacific region.

Global Secure Layer can provide extended reach options for our customers using the Hawaiki cable. With available options extending across Oceania and North America, our Ethernet solution will ensure our customers stay internationally connected into major global hubs.

The below Latency Matrix outlines the expected 'router to router' latencies between sites.

Latency Matrix - (Optimal Path) Cable: Hawaiki					
A/Z Side	**Sydney**	**Brisbane**	**Melbourne**	**Adelaide**	**Perth**
Los Angeles	133ms	144.9ms	142.8ms	152ms	179.4ms

Tokyo <> Los Angeles

UNITY CABLE

- The Unity Cable is a linear 9620km Trans-Pacific submarine cable system connecting Tokyo and Los Angeles.
- The cable has up to 7.68 Tbps of capacity.

The below Latency Matrix outlines the expected 'router to router' latencies between sites.

Latency Matrix - (Optimal Path) Cable: Unity		
A/Z Side	**Los Angeles**	**New York**
Tokyo	97ms	158ms

New York <> Los Angeles

VARIOUS TERRESTRIAL CABLES

- The various cables connect two major business hubs being Los Angeles and New York.
- The cables span more than 3,900km in length.

Latency Matrix - (Optimal Path) Cables: Various		
A/Z Side	**Los Angeles**	**Sydney**
New York	61ms	193ms

For further information on any of our Ethernet cables, please contact the Global Secure Layer team.