

Programmable Network



Use case: Data Centre Interconnect

Connect on demand to a global network of private and public clouds. Data Centre Interconnect lets you connect on-demand to multiple, enabled data centres across the world.

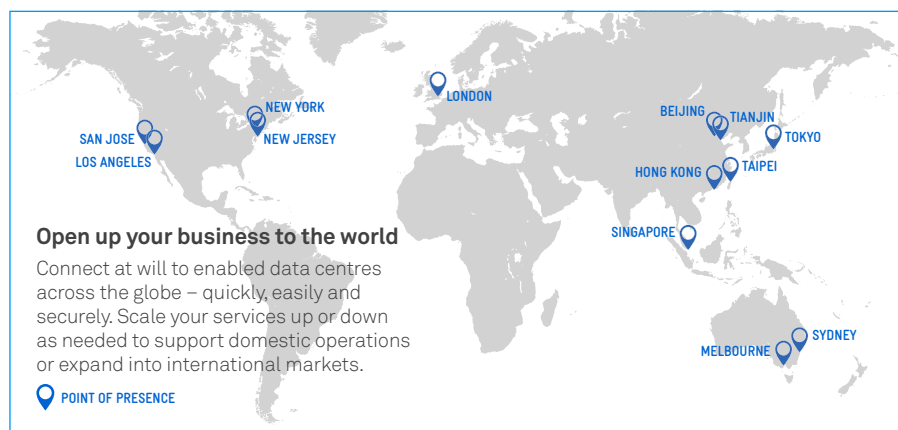
Data Centre Interconnect enables organisations to complement traditional network approaches with Software Defined Networking technology that enables bandwidth to be provisioned on demand, matched to application characteristics, and deployed across the routes you need.

Data Centre Interconnect gives you the freedom to move between selected data centres and clouds while having greater flexibility and scalability. This means you can be more agile and efficient in the way you manage cloud, critical applications and business continuity. It's ideal if you rely on private or hybrid cloud environments, transfer large amounts of data or have significant data replication or back up requirements.

Data Centre Interconnect enables you to configure multiple data flows under one port with the flexibility to boost bandwidth of any of those flows to up to 10Gb/s when required. Simply increase or decrease the bandwidth in accordance with your business needs so you only pay for what you use.

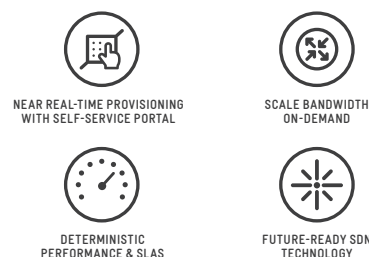
The solution brings together the stability, high capacity and efficiency of layer 2 Ethernet connectivity with the flexibility of Software Defined Networking (SDN) technology.

What you can do with Data Centre Interconnect



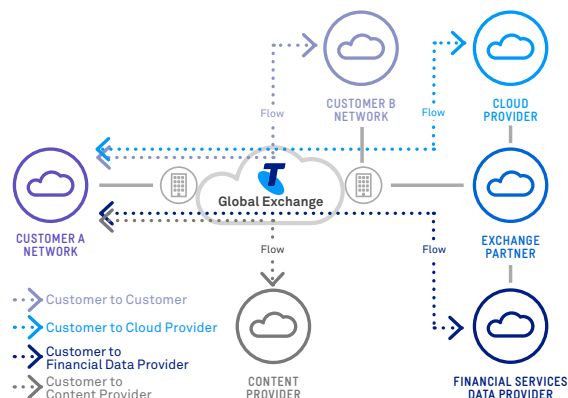
Adopt a flexible approach to data centre connectivity

Configure your entire service in minutes via a self-service portal. Use on-demand bandwidth and only pay for what you need. With faster, flexible provisioning, you can respond quickly to changes in your business and the market.



Connect to world leading public cloud providers

Extend your organisation's private IT environment by connecting to world leading public cloud providers (e.g. Amazon Web Services), Exchange providers (e.g. Equinix Cloud Exchange) and other customer networks. We provide reliable network performance to enable a truly integrated hybrid cloud solution.



Features	Benefits
Global reach – Ethernet based point-to-point connectivity to more than 30 data centres in Australia, Hong Kong, Singapore, Taiwan, Japan, UK and USA.	– Delivers far-reaching connectivity to support both domestic and international operations.
Global Exchange – Maximise innovation and flexibility by creating a gateway to hybrid cloud deployments.	– Extend your network and connect on-demand to a global community of business partners including other enterprises, software vendors, public cloud providers and exchanges.
Network resilience – A self-healing network with no single point of failure. – Full redundancy with diverse paths available to any connection between data centres.	– Assurance of high availability regardless of data centre locations.
Self-service portal – Configure bandwidth, topology, latency, SLAs and view the term of your contract from one point. – View the estimated cost of your service.	– Provides full control and visibility of your service to respond fast to business and market change.
Software Defined Networking and Network Function Virtualisation – Network Orchestration with the OpenFlow SDN controller enables complete separation of control and network flows.	– Supports rapid provisioning of data centre services in minutes and on-demand bandwidth bursting to meet rapidly changing application demands. – An automated solution. The SDN controller and the service orchestrator perform all the backend processes to reduce delays and human errors.
One port, many flows – Order flows between any of the active ports, and configure up to 4,095 flows for each port.	– Achieve different performance results for different applications.
VLAN support	– Allows you to aggregate multiple services into a single port.
Jumbo frame support	– Supports Ethernet frames of up to 9000 bytes.
Choice of interface types	– Flexibility to connect with both copper and optical fibre at the service hand-off point in the data centre.
Scalable bandwidth – Select any bandwidth ranging from 1Mbps to 10Gbps in 1Mbps increments.	– Add temporary bandwidth bursts as needed and only pay for the time you want.
Capacity management – Ensures Data Centre Interconnect links are not over-subscribed.	– Flows and bursts have guaranteed bandwidth over the duration of their existence.
Granular performance control	– Select latency option for your flow to ensure that your critical data meets the latency requirements.
APIs availability – Integrate DCI directly into your applications using Restful APIs which enable continuous innovation according to your requirements.	– Future-ready. Helps to achieve continuous innovation and API based integration for your applications in the future.
24/7 helpdesk	– Expert support to resolve issues and restore the service within your subscribed service level.

About Telstra

We provide network services and solutions to more than 200 of the world's top 500 companies. They rely on us to do business across 240 countries and territories and to enable greater productivity, efficiency and growth. Our solutions offer the best of all worlds – skilled people and a rich portfolio of services delivered on our world-class Telstra Next IP® network and Telstra Mobile Network. To ensure reliable performance, they're monitored and maintained from our dedicated centres using advanced management and operational systems. And they're backed by Telstra Enterprise-grade Customer Service® and one of Australia's largest and most qualified field and technical workforce.

Things you need to know

You need to be present in a Data Centre Interconnect enabled data centre to use the service.

Data Centre Interconnect does not provide connectivity between your site and the data centre. To link the data centre to your site, you will need to purchase additional layer 2 connectivity – Ethernet MAN for speeds under 1Gbps and OpticWave or Telstra Wavelength Service for speeds higher than 1Gbps.

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