



## Data Centre Interconnect

**Powered by Lumea Wavelength**

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# Data Centre Interconnect

Data Centre Interconnect provides point-to-point connectivity between data centres and public clouds to enable the rapid transfer of data and enable backups for redundancy. Redundancy secures network availability and decreased failure risk along critical data paths.

Lumea's Data Centre Interconnect service is powered by **Lumea Wavelength**.

## Lumea Wavelength

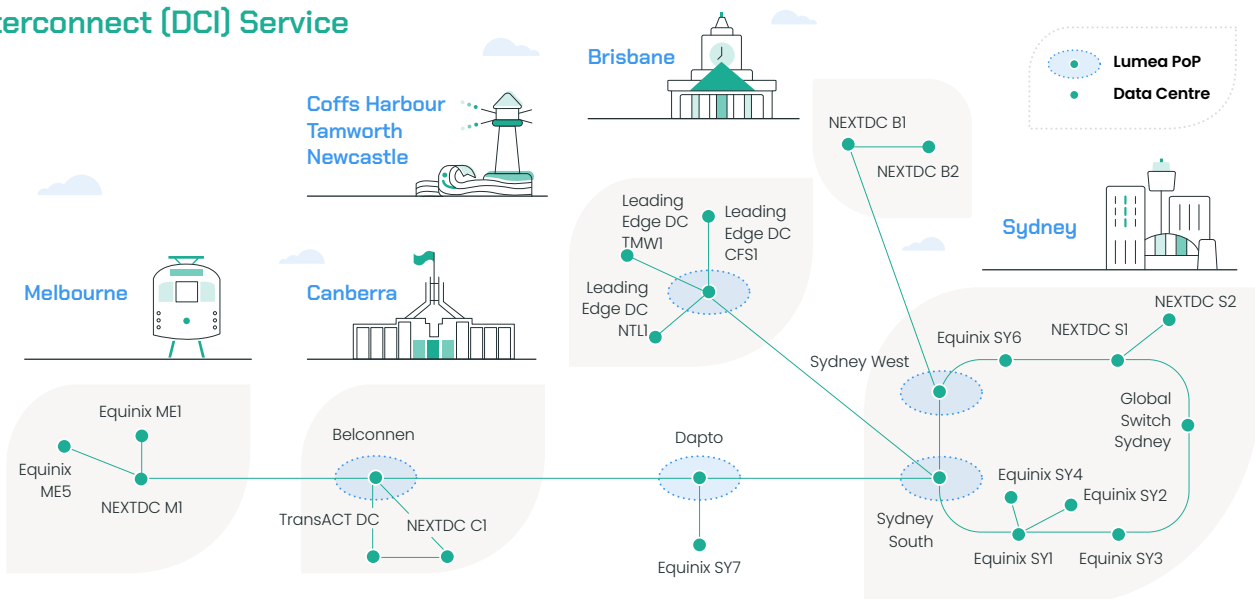
A high capacity, point to point data carriage service utilising the OPGW aerial fibre network and the latest Dense Wavelength Division Multiplexing (DWDM) technology.

A perfect customer solution for large bandwidth applications such as Data Centre Interconnect (DCI) and database replication to satisfy bandwidth demanding and dynamic business environment which could be between any of the selected\* direct fibre connected data centres across NSW/QLD/ACT/VIC.

**\* Note: Additional data centre might be available. Please contact us for more information.**

Lumea Wavelength (LW) enables you to extend or supplement your telecommunication network. Built on next generation DWDM technology, LW utilises technology compliant with international standards supporting a range of customer interfaces at data speed of 10Gbps, 100Gbps and higher.

## Lumea Wavelength Data Centre Interconnect (DCI) Service



**\*Note: only a select number of data centres have been displayed in this diagram. Please contact us for other available locations.**

# Features and benefits



## Scalability

Lumea Wavelength solution empowers bandwidth demanding businesses to scale their network in a dynamic business environment.



## Coverage

Our network offers CBD, Metro and regional coverage using aerial and underground fibre and third party access networks extensions.



## Security

With network encryption as an option, wavelength services act as a key component of a customer's holistic security strategy. By helping to reduce the chances of data being lost or stolen in a readable form, the associated business risks can be mitigated.



## Cost Efficiency

Lumea's high-capacity network provides attractive commercial offers and support customers in reaching the scalable cost per Mbit regardless where they are on the capacity requirement curve.



## Performance

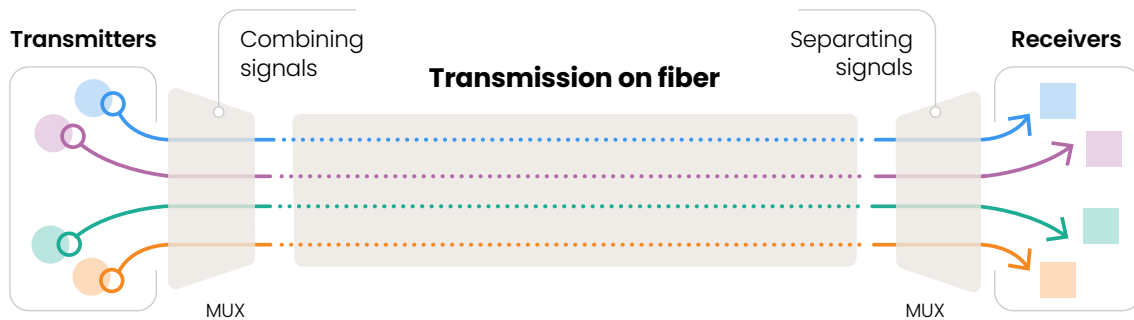
Lumea's state-of-the-art network provides guaranteed latency, complete protocol transparency and with minimal jitter and frame loss.



## How it Works

Dense Wavelength Division Multiplexing (DWDM) is an optical multiplexing technology used to increase bandwidth over existing fibre networks.

DWDM works by combining and transmitting multiple signals simultaneously at different wavelengths on the same fibre thus multiplying the capacity of the fibre.



## Technical Specs

Bandwidth	Signal Type	Presentation Interface	Fibre Type	Max Distance (KM)
10Gbps	10 Ethernet	10GBASE-LR nm	SM 1310 nm	10
		10GBASE-SR	SM 850 nm	300
		10GBASE-ER-Lite	SM 1310 nm	25
	OTU2	PIII-2D1	SM 1310 nm	2
		OTU2 PISI-SD2b	SM 1550 nm	40
	OTU2e	PISI-2D2b	SM 1550 nm	40
40Gbps	40G Ethernet	40GBASE-SR4	MM 850 nm	300
		40GBASE-LR4	SM 1310 nm	10
		40GBASE-ER4	SM 1310 nm	40
	OTU3	OTU3	SM 1310 nm	40
100Gbps	100G Ethernet	100GBASE-SR4	MM 850 nm	100
		100GBASE-LR4	SM 1310 nm	10
		100GBASE-FR	SM 1310 nm	2
		100GE CWDM4	SM 1310 nm	2
		4WDM-40	SM 1310 nm	40
	OTU4	OTU-4 4LI-9DIF	SM 1310 nm	10, 40



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