



Optus Private WDM

The high-performance connectivity your business demands

It starts with yes

yes OPTUS

Let Optus light up and manage your own private fibre network

Optus Private Wavelength Division Multiplexing (WDM) is a state-of-the-art solution designed for organisations that require high-performance connectivity that is secure and private between major sites and data centres. Delivered over private dark fibre, this service enables unmatched performance for your mission-critical operations.

A private fibre network helps mitigate performance issues found in shared networks and protect you against threats. With Optus, you also get 24X7x365 monitoring and proactive management – as well as the option of diverse paths for redundancy.

DIY dark fibre vs. Optus Private WDM

Optus Private WDM eliminates the complexity of managing your own infrastructure, saving you time, money and resources while ensuring optimal performance. Let Optus light up and manage your secure, private network, so you can focus on driving your organisation forward.

Key applications



Business continuity and disaster recovery



Storage area networking



Server and mainframe mirroring



High-capacity inter-site connectivity

Why Optus Private WDM is the right choice

Trusted expertise and reputation

- Our proven track record: Extensive experience delivering tailored, reliable Private WDM services.
- Recognised for solving complex connectivity challenges across industries.
- Superior SLAs and support: 99.95% (single unprotected service) and 99.999% (resilient service) with a service restoration target of 4 hours.

Leading-edge solutions with expert management

- World-class partnerships enabling advanced encryption, diverse protocols and bespoke designs.
- Staffed by skilled engineers, the Optus Enterprise Technical Assistance Centre (TAC) provides a single point of contact for customers and ensures proactive and expert support.

Solutions designed to meet your needs

- One of the few providers in Australia capable of delivering Private WDM with dark fibre and complete management under the one roof.
- Cost-effective, market-competitive offerings with extensive fibre availability across major cities and regional centres in Australia.
- Extra help where you need it: Optus can also provide security and network managed services, act as an extension of your team or supply specific tools to complement existing frameworks.



Key features

- **Dedicated private and secure infrastructure:** Dedicated, private fibre ensures ultra-low latency data transmission, compliant with stringent regulatory standards. Nobody, including Optus TAC personnel, has access to the data stream.
- **Virtually unlimited bandwidth:** Up to 100Gbps per wavelength, with multiple wavelengths for near-infinite capacity.
- **High-performance connectivity:** Carrier-grade service with up to 99.999% availability in protected WDM systems.
- **Industry-leading capacity and service density:** Solutions from Tier 1 vendors minimises DC footprint required.
- **Low-latency optical encryption options:** Protect in-flight data at the optical layer and maximise network speed.
- **Optical protection options:** Fast recovery from fibre cuts, ensuring smooth and uninterrupted application performance. Our protected configuration uses dual paths to switch automatically within 50ms in case of a fibre failure, with additional safeguards like Optical Transponder and Protection Switches to protect against hardware issues.
- **24/7/365 proactive support:** Managed by the Optus TAC.
- **Custom solutions:** Flexible topology configurations, including point-to-point, ring, and hub-and-spoke setups.
- **Protocol independence:** Supports Ethernet, Fibre Channel, ESCON, and FICON.
- **Simple and well-defined interfaces:** Standard Ethernet and Fibre Channel support for easy integration.

How you benefit

- **Resilience:** Geographically diverse fibre paths, carrier diversity and optical protection options ensure ultra-high reliability – critical for disaster recovery, business continuity and storage replication.
- **Easy to scale:** Up to 100Gbps per wavelength and near-infinite capacity.
- **Enhanced security:** Private fibre keeps your data safe from breaches, while low-latency optical encryption protects data without slowing down your network or requiring extra equipment.
- **Operational efficiency:** Low latency and contention-free transfers for seamless performance.
- **Enhanced power efficiency:** Ultra-low power per bit minimises overall energy consumption for positive operational and environmental impact.
- **Peace of mind:** Backed by market-leading SLAs and Tier 1 vendor partnerships.
- **Cost-effectiveness:** Fully managed service reduces CAPEX requirements.
- **Commercial flexibility:** Lease or purchase the WDM equipment with simple OPEX monthly service charges.
- **Easier issue identification and resolution:** Industry-standard Ethernet and fibre channel interfaces.
- **Tailored configurations** to meet unique business needs.
- **Simplicity:** Fully managed, end-to-end service eliminates the complexity of a DIY solution that requires significant technical expertise.

Optus Private WDM in action



Financial Services and Insurance (FSI)

Providers use Optus Private WDM for regulatory compliance, secure transactions, backups and real-time trading, scaling bandwidth and managing high data volumes with low latency.



Government, emergency services & critical infrastructure

Secure and high-capacity networking to protect sensitive data and ensure uninterrupted services.



Healthcare

Securely exchange real-time data to support medical imaging, telemedicine and reliable patient care.



Transport & logistics

Real-time data sharing and operational continuity.



Broadcasters

Ultra-high-speed content distribution.



Ready to give your data the priority it deserves?

Let Optus be your partner in achieving secure, high-capacity data connectivity. Our team of experts is here to provide a solution tailored to your needs.

Visit the product page

optus.com.au/enterprise/networking-security/network-connectivity/private-networks/private-wdm

Talk to your account manager or request a call back

optus.com.au/enterprise/networking-security#request-callback

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