



# Efficient and secure LAN connectivity

The future is exciting.

**Ready?**



**vodafone**

# Dedicated Ethernet



**Point-to-Point connectivity provided over Vodafone's optical transmission network, supporting ultra-low latency and high bandwidth**

Vodafone Dedicated Ethernet provides simple, efficient and secure connectivity between two fixed points enabling transparent connections between LANs. The fixed points can be throughout in the US, Asia, the UK and mainland Europe. The services utilise Vodafone owned capacity on submarine cables, together with capacity provisioned by Vodafone on terrestrial systems.

**Vodafone Dedicated Ethernet is delivered over an optical platform. Running directly over optical means your chosen bandwidth is guaranteed, your link follows a deterministic (known) path, which in turn provides ultra-low latency and delay and your data is exchanged as quickly as possible.**

The vast majority of higher capacity connections between LANs use Ethernet interfaces at 1 Gbps, 10 Gbps and 100 Gbps; however, the same optical technology can deliver services at other bandwidths including STM-16, STM-64, Fibre Channel (100, 200), IBM FICON, FICON Express, ODU1, ODU2, ODU2e and ODU4.

There are no usage charges for Dedicated Ethernet, just an annual rental. Compensation is offered under the Vodafone Service Reliability Guarantee if service levels fall below the guaranteed levels or fail to meet specified targets.

## Dedicated Ethernet benefits

Dedicated Ethernet offers the following benefits:

- **Reliable** - provides carrier-grade reliability and the reassurance of running over the resilient Vodafone network infrastructure
- **Secure** - a dedicated connection for your sole use makes this solution inherently secure
- **Cost-effective** - eliminates the need for specialised interface equipment between networks, thereby reducing CapEx and OpEx
- **Simple** - provides a seamless link between network layers and enables convergence of voice, data and video on one network, eliminating the need for duplicate services
- **Dedicated for your use** - bandwidth is provided over optical network infrastructure, providing you with zero contention, zero packet loss and no jitter
- **Low latency** - the latest optical infrastructure provides service offers the lowest latency possible through optical technologies connectivity with ultra-low latency and scalable bandwidth up to 100G

## Customer site access

Vodafone connects customer sites directly onto Vodafone's optical transmission network using optical fibre (either owned or procured by Vodafone). This type of connection is termed "onnet". When the distance or circuit speed requirements prevent deployment of on-net access methods, Vodafone may utilise third party providers for last mile connectivity services. For services provided on-net Vodafone will use managed Customer Premises Equipment (CPE). For services with one or more off-net access connections, managed CPE is not provided as part of the standard service for the off-net connections.

## Why Dedicated Ethernet?

Vodafone has developed Dedicated Ethernet as a solution for extending the reach of Ethernet from the LAN to the Metropolitan Area Network (MAN) and Wide Area Network (WAN). This enables you to achieve the speed and flexibility of a LAN on a much larger scale — across the globe if you need it. The service could be the ideal solution for your business if:

- You want to reduce your CapEx and OpEx. Ethernet is the de facto IT systems interface — by having an Ethernet connection between LANs, you avoid the need for traditional communications interface equipment and its associated costs and maintenance.
- You have time and integrity-sensitive applications that require a guaranteed quality of service. Our Dedicated Ethernet circuits give unparalleled service quality with zero packet loss, no jitter and low latency.



### Next steps

To find out more, please contact your Account Manager or call us on:

**0800 092 5825**

**[vodafone.co.uk/business/solutions/networking/ethernet](https://vodafone.co.uk/business/solutions/networking/ethernet)**