



Link your sites cost-effectively

The future is exciting.

Ready?



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Introduction

Ethernet Wireline (EWL) gives you cost-effective connectivity between your company sites using our secure, high-speed network. Much more flexible than traditional leased lines, EWL is ideal for extending your LAN capability across a wide area network either nationally or globally. EWL is available as a point-to-point connection or in a hub-and-spoke configuration.

EWL also lets you utilise multiple services over the same physical access connection, bringing further cost reductions and IT infrastructure convergence.

What you get

- **Simplicity** – reduces the complexity of delivering connectivity between your sites, so management costs are reduced
- **Control** – provides an extension to your LAN allowing control to be retained of IP routing and addressing, and enabling further services to be deployed over the Ethernet layer – so you maintain control of your network infrastructure
- **Flexibility** – allows you to easily expand network bandwidth, so your business can quickly adapt to changing needs
- **Consolidation** – multiple services can now be delivered reliably over a single network bearer, reducing your overall communications costs

Simplicity

EWL appears as a single LAN across two or more geographically separated sites. This removes many of the headaches associated with managing IT services – particularly where you have simple network topologies that don't need the complexities of IP routing, or you prefer to implement your own IP addressing. Site-to-site data replication and virtual machine migration are just two ways in which EWL can be a key enabler of the technology, significantly simplifying day-to-day management.

Control

EWL allows your business to retain control of IP addressing and routing – without relying on a third party to make changes. You can also manage your network quality using VLANs, logically separating traffic using the three provided Classes of Service (CoS) to ensure critical traffic is prioritised.

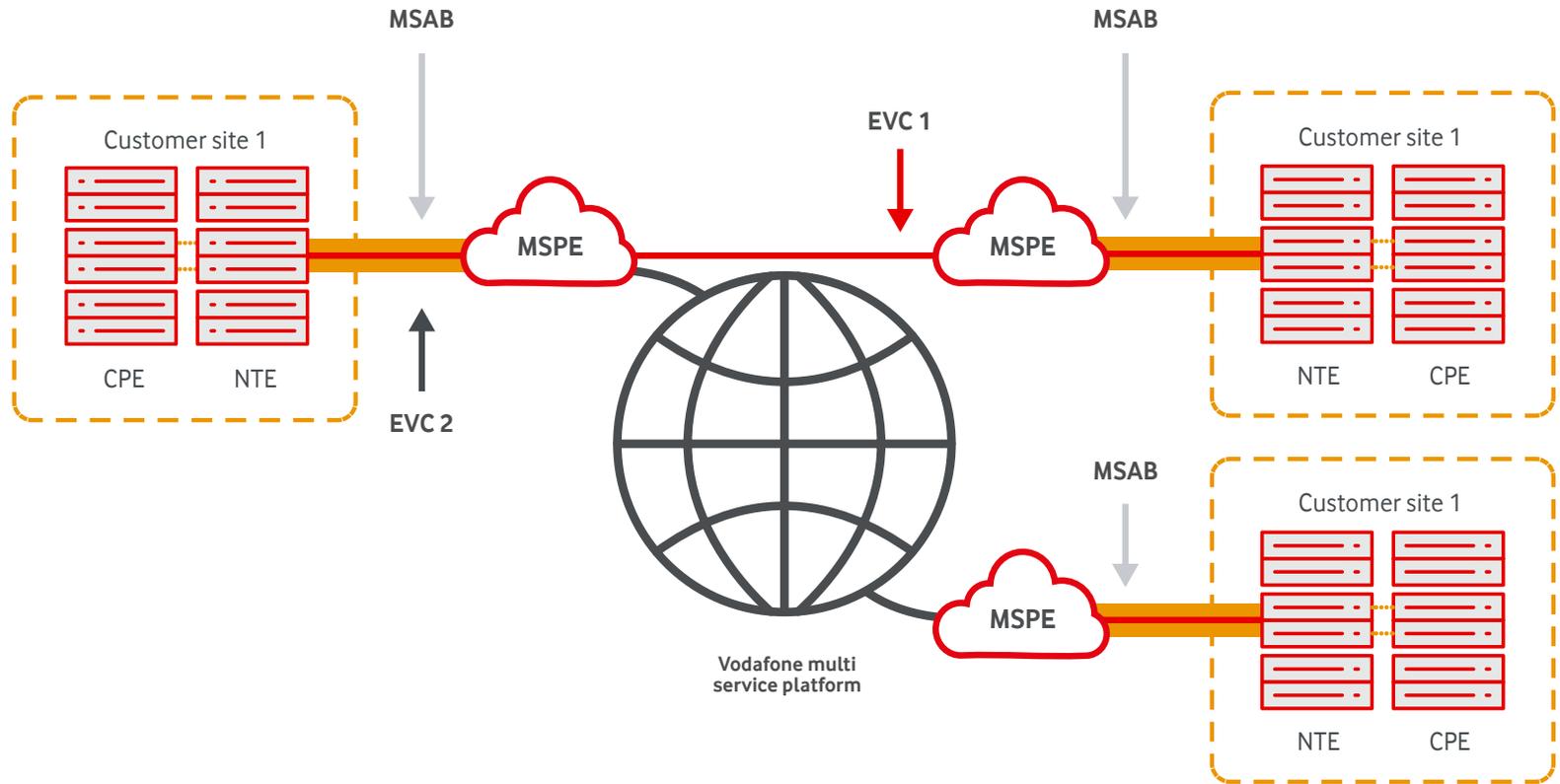
Flexibility

An optional 'burst' service is available – ideal for times when you need extra capacity for network traffic, but only on a temporary basis. Provided that enough capacity is available on the access bearer, traffic can burst up to twice the bandwidth you'd normally have available.

Consolidation

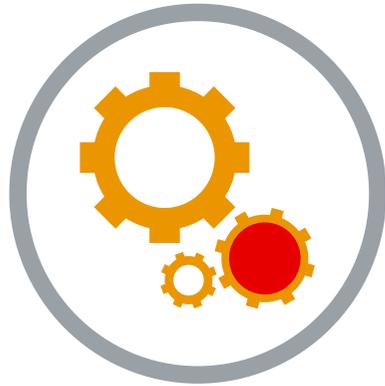
EWL is built on our next generation network: designed from the ground up to transport real-time applications like voice and video. These and other delay-sensitive applications or services can be consolidated onto the same network as general data traffic, ultimately reducing total cost of ownership.

In detail



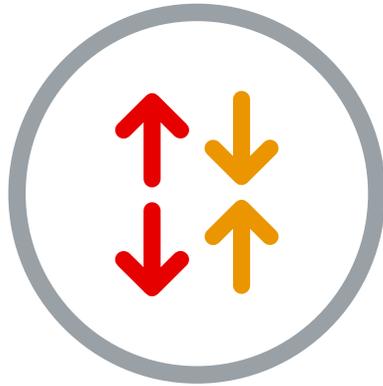
← Vodafone's Ethernet Wireline →

How EWL works:



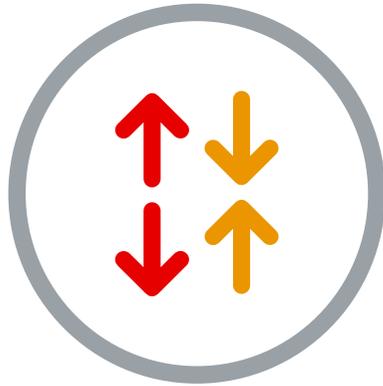
- NTE (Network Termination Equipment) – Equipment provided to terminate the access connection on your site
- Access Connection – Fibre or copper bearer used to connect your site to the MSPE
- MSPE (Multi-Service Provider Edge) – Local node where the access connection hands over to our MSP network
- MSP (Multi-Service Platform) – Infrastructure used to deliver a range of our connectivity services, formed of core, distribution and aggregation layers
- EVC (Ethernet Virtual Circuit) – Logical pathways between your sites across our MSP network

What EWL gives you:



- Bandwidth options from 1Mbps to 10Gbps
- Point-to-Point or Point-to-Multi-Point configuration options
- Sites that appear as if connected to a single LAN
- Options to 'burst' or upgrade bandwidth at short notice
- Options to prioritise traffic using three Classes of Service

What EWL gives you:

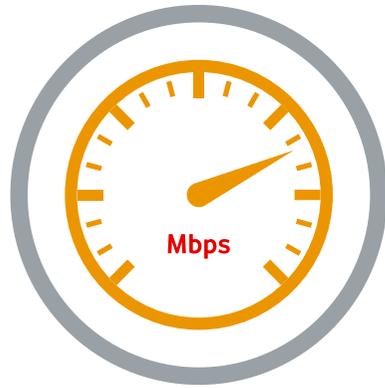


EWL is presented as a Layer 2 service, meaning that Layer 3 protocols such as the IP layer remain solely within your control in terms of visibility, configuration and management. This makes it particularly suitable where you prefer to take a self-managed approach to network build, or where security policies dictate that IP routing information cannot be shared with a third party. This also makes it a natural choice if you're looking for a migration path from legacy Layer 2 WAN services like ATM and Frame Relay.

EWL also provides three Classes of Service – ideal if you have mixed performance needs for your network traffic, where some are critical or latency intolerant and some not so critical. These service classes are:

Class of Service	Application type
Premium	For delay-sensitive, real-time applications like voice and video.
Enhanced	For business-critical traffic that's not necessarily delay sensitive, but does require prioritisation.
Standard	For non-time-critical traffic like email or internet access.

Flexible bandwidth



Businesses face a continual challenge matching bandwidth and network performance requirements to business needs, while minimising network complexity and lowering the cost of network ownership. EWL offers you a solution with flexible service options. Choose to install local access bearers with a larger capacity than you need now, then you can 'flex' the bandwidth on the end-to-end connectivity at short notice whenever you need to.

Unlike the 'burst' bandwidth facility – which helps meet unexpected or short term requirements – this is a planned change that permanently increases the committed bandwidth. However, you only pay for the bandwidth needed now. You simply have the reassurance that you can increase it at any point – often, without us needing to revisit a site or change the terminating equipment. It's an ideal solution if you need future scalability.

Resilience



The loss of WAN connectivity can have a serious impact on any organisation. That's why we provide EWL across our highly resilient MSP network, which has many diverse routes for carrying data around failed or congested links. And because we know that when failures do occur, it's often in the last-mile connection to your sites, we offer a range of resiliency options to minimise this risk – including dual-access paths to your sites, plus geographic diversity if you need it.

Summary

EWL is a cost-effective way to link your company's sites using our network. It gives you the appearance of being connected to a single LAN, the flexibility to increase bandwidth, control over service quality and the peace of mind that comes from knowing your data is travelling over our highly secure and resilient network.

Next steps

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

10-50 employees

0808 004 4495

51+ employees

0845 241 9560

www.vodafone.co.uk/business/business-connectivity/data-connectivity/ethernet-service