

boxxe WAN Underlay

One network underlay, one contract, one SLA, one support number

The boxxe WAN Underlay delivers reliable, scalable connectivity across every site. It brings multi-provider Full Fibre (FTTP), carrier-diverse Ethernet, FTTC and multi-carrier 4G/5G together in a single managed service. Direct Internet Access (DIA) provides a high-performance foundation for SD-WAN, and where needed we can run hybrid services like MPLS and VPLS alongside DIA on the same infrastructure. boxxe is your single point of ownership: one contract, one SLA, one support number. We design, deliver and support it all.

Introduction

A robust WAN underlay is the foundation for every modern network. By combining multiple fibre operators with tier-1 carriers and multi-carrier 4G/5G, boxxe delivers broader reach, better resilience and straightforward operations under a single SLA.

What the service is

- Direct Internet Access (DIA): dedicated, internet bandwidth ideal as the underlay for SD-WAN and cloud access.
- Full Fibre Business Broadband (FTTP): up to 2.5Gbps via Openreach and leading AltNets, with business grade SLAs.
- Carrier-diverse Ethernet: private, high-performance Ethernet from 100Mb to 100Gb with physical and logical diversity.
- FTTC (VDSL2): up to 80/20Mb where full fibre is not yet available.
- Cellular 4G/5G: multi-carrier SIMs with private APN, dynamic or fixed IP, and near real-time estate management.
- Hybrid services: MPLS and VPLS alongside DIA on the same infrastructure for specific sites or workloads.
- Delivery options: managed or wires-only, Layer 2 or Layer 3 hand-off, unified billing and support through boxxe.

Why boxxe?

- Single ownership: one contract, one SLA and one support number across all access types and carriers.
- Reach and choice: mature AltNet aggregation alongside tier-1 carriers to maximise fibre availability and diversity.
- Managed CPE: boxxe supplies and manages customer premises equipment, including software updates, security patching and standard moves/adds/changes (MACs).
- SD-WAN synergy: boxxe's extensive SD-WAN capabilities and managed SD-WAN services are available on top of the underlay WAN; they can be delivered as part of the same managed service, removing any conflict between WAN provider and SD-WAN provider.
- Faster outcomes: streamlined availability checks, quoting and delivery.

Contact us today

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Visit www.boxxe.com

Problems Solved

- Multi-contract complexity and unclear accountability across providers
- Limited fibre availability and long lead times at key sites
- Single-carrier exposure and poor resilience
- Inconsistent performance across mixed access types
- Conflicts between WAN and SD-WAN providers
- Hard-to-reach and rural sites delaying rollouts

Customer Benefits / Outcomes

- Broader coverage: fibre to more locations through aggregation, with credible alternatives where fibre is not present.
- Higher uptime: physical and logical diversity with carrier-diverse Ethernet and FTTP backup options.
- Simpler operations: one SLA, one support number, unified billing and change management.
- Lower total cost: competitive fibre economics and right-sized bandwidth.
- Faster time to service: practical fallbacks to get sites live quickly while fibre is delivered.
- One managed service: underlay and SD-WAN operated by boxxe to simplify escalation and decision-making.

Service wrapper

- Single engagement: one contract, one SLA, one support number for all sites and access types.
- Managed CPE: lifecycle management, software updates, security patching and standard MACs.
- Unified operations: provisioning, incident management and change coordinated end-to-end by boxxe.
- 24x7 support: UK-based teams with clear escalation paths and proactive communications.
- Reporting: consolidated performance, availability and estate data across all underlay types.

Technical highlights

- FTTP up to 2.5Gbps, Ethernet from 100Mb to 100Gb, DIA for dedicated symmetric internet, FTTC up to 80/20Mb, 4G/5G with private APN.
- Managed or wires-only, Layer 2 or Layer 3 hand-off, diverse routing to separate datacentres.
- UK-wide footprint through aggregated AltNets and tier-1 carriers.

To discuss your sites and timelines, speak to your boxxe account team.

Contact us today

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