

# LINX London LANs

## Service Overview

LINX's mutual approach to enhancing the capacity of local digital infrastructure, based on an industry led approach, engages and strengthens the local digital business community.

### Uniting Networks. Igniting the Internet.

The London Internet Exchange (LINX) is one of the world's leading Internet exchange point (IXP) operators. Our company ethos and aspirations result in constant growth and improvement in our services. As a result, members have access to the most attractive peers at a low cost.

With over 950 member ASNs connecting from 80 different countries worldwide, LINX members have access to direct routes from a large number of diverse international peering partners. Using LINX allows a reliable exchange of traffic with increased routing control and improved performance.

As a not-for-profit organisation, we focus on investing our service and membership fees into strengthening LINX network services. This ensures that our infrastructure is as up to date as possible and that we remain at the forefront of the IXP industry. By doing so, we can confidently provide our members with improved network performance, low latency, greater resilience and more control.

Further more LINX is uniquely placed to help members navigate regulatory and legislative issues that impact member business.

Our work falls into two main categories:

#### Regulatory awareness

Educating and advising members on their mandatory responsibilities and to inform and lobby government

#### Promote our members' interests

Predominantly our aim is to support policies that maintain a self-regulated environment.

#### Benefits of Peering and using an Internet Exchange

- Improved performance
- Low latency
- Greater resilience
- Control of traffic routing

#### LINX Services

- 1G, 10G, 100G peering ports
- Remote peering partnership scheme
- Colocation services
- Route server for multilateral peering
- Private Interconnects and private peering

#### Who would benefit from using LINX

- Internet Service Providers
- Managed Service Providers
- Network Service Providers
- Content Delivery Networks
- Hosting Companies
- Data Rich Transactional Enterprises
- Direct Cloud Access
- Direct Access to VOIP Providers

#### Benefits of using the LINX London Exchange

- Dual LAN strategy gives enhanced resilience
- Greater number of unique interconnects
- Largest number of interconnects
- Improved BGP security
- Community of users
- Government affairs
- Access to public cloud providers and UK eyeball networks

# LINX Dual LAN Infrastructure

One of the unique features of LINX is that we operate a dual LAN strategy using state of the art equipment provided by Juniper Networks (LON1), with JUNOS software, and Edgework Networks (LON2) using IP Infusion's OcNOS software.

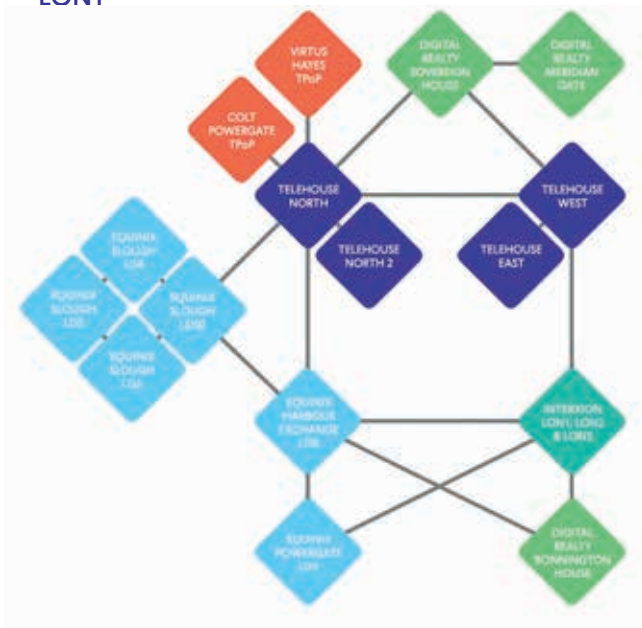
The dual LANs are both logically and physically separate. All locations are connected by multiple dark fibre circuits, used to carry multiple 10G or 100G circuits using passive DWDM optical transport technology.

The LON1 peering LAN itself is a VPLS instance, which ensures fast failover via a backup LSP path in the event of a fibre cut or other link failure. The LON2 LAN uses a disaggregated network model which utilises IP Infusion's OcNOSTM network operating system and switch hardware from Edgework Network. The architecture employs EVPN over VXLAN, leaf-spine topology. The configuration of both networks is fully automated and both are 100G ready.

Each LINX location has one or more switches installed from each vendor as shown in the following diagrams.



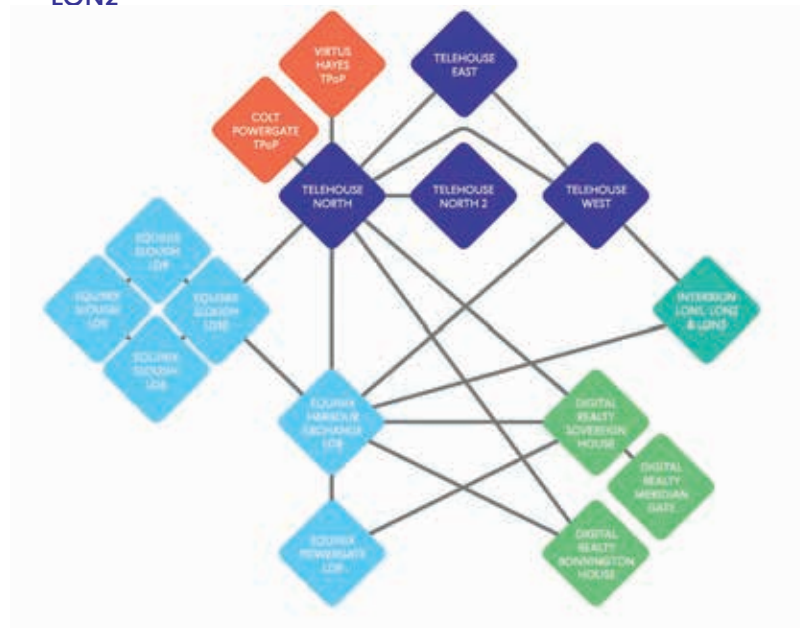
LON1



## LON1 Technical Specification

- Juniper PTX5000
- Juniper MX960
- Juniper MX480
- Management router
- Multi-lateral route server
- Route collector
- Monitoring server
- IPv4, IPv6 peering LAN

LON2



## LON2 Technical Specification

- Edgework AS5812
- Edgework AS7712
- Management router
- Multi-lateral route server
- Route collector
- Monitoring server
- IPv4, IPv6 peering LAN