



Digital Wholesale Solutions' fast, reliable and flexible network lays the digital foundation to enable businesses to thrive

The Digital Wholesale Solutions network has been developed over the last 25 years with business priorities in mind. The result is an infrastructure based on carrier-class hardware architected to scale and evolve with new technology and capable of withstanding new trends. DWS operates an 'aggregation network'. This means that we own equipment in our 'core' to deliver services to customers, whether broadband, Ethernet or any other sort of connectivity, and our core network connects into all the major carriers in the UK.

Cisco Gold and Juniper Elite Partner status are both proof of our ability to deliver service excellence. Based on a super high speed 100Gb ring at its core, the DWS network is designed for both performance and robust reliability. DWS have a state-of-the art Juniper, Cisco and Arbor powered network with embedded DDoS protection, which protects our customers' networks 24/7/365.

<p>Network powered by Cisco and Juniper</p>	<p>100Gb core</p>	<p>DDoS protection</p>	<p>SLAs</p> <p>What is the packet loss SLA? 0.1% (Across the core network only)</p> <p>What is the Jitter SLA? 3.0 (ms) (Across the core network only)</p> <p>What is the latency SLA? 30 (ms)(Across the core network only)</p> <p>SLA for availability of core network? 99%, please see contract for more details</p> <p>SLA for restoration of access services? Please see Broadband and Leased line (Ethernet) contracts</p>
<p>Highly resilient, geographically diverse: 4 connectivity aggregation and internet peering PoPs</p>	<p>London (Telehouse North 2 and 1 Harbour Exchange)</p> <p>Slough (Equinix LD6, Buckingham Avenue)</p> <p>Manchester (Equinix MA1, Synergy House)</p>	<p>Over 300 ISP and content providers via private and public peering</p>	
<p>Over 200,000 Broadband and 10,000 Ethernet circuits</p>	<p>Access using all major UK carriers</p>	<p>Private termination into Azure and AWS</p>	<p>Contention</p> <p>Broadband (expected throughput provided at point of sale based on anticipated line conditions)</p> <p>Ethernet (1:1 - no contention)</p>



Network PoP

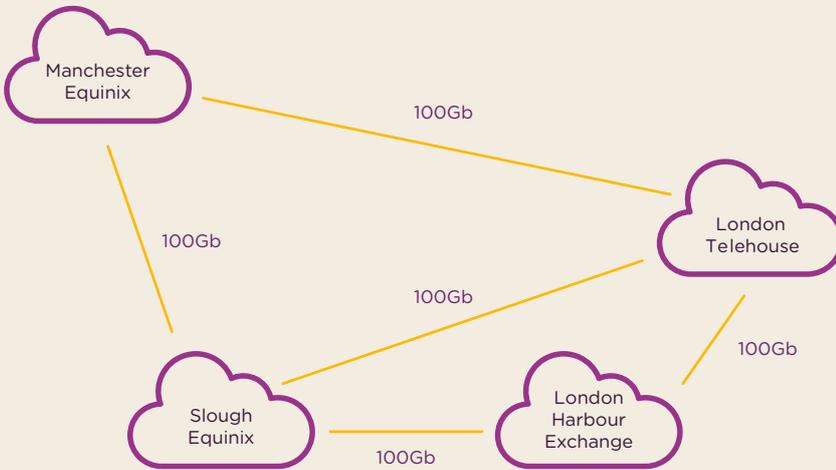
1 Harbour Exchange
Exchange Tower 1
Harbour Exchange Square 1
London
E14 9GB

Telehouse North 2
Docklands
Coriander Avenue
London
E14 2AA

Slough
Equinix LD6
2 Buckingham Avenue
Slough
SL1 4NB

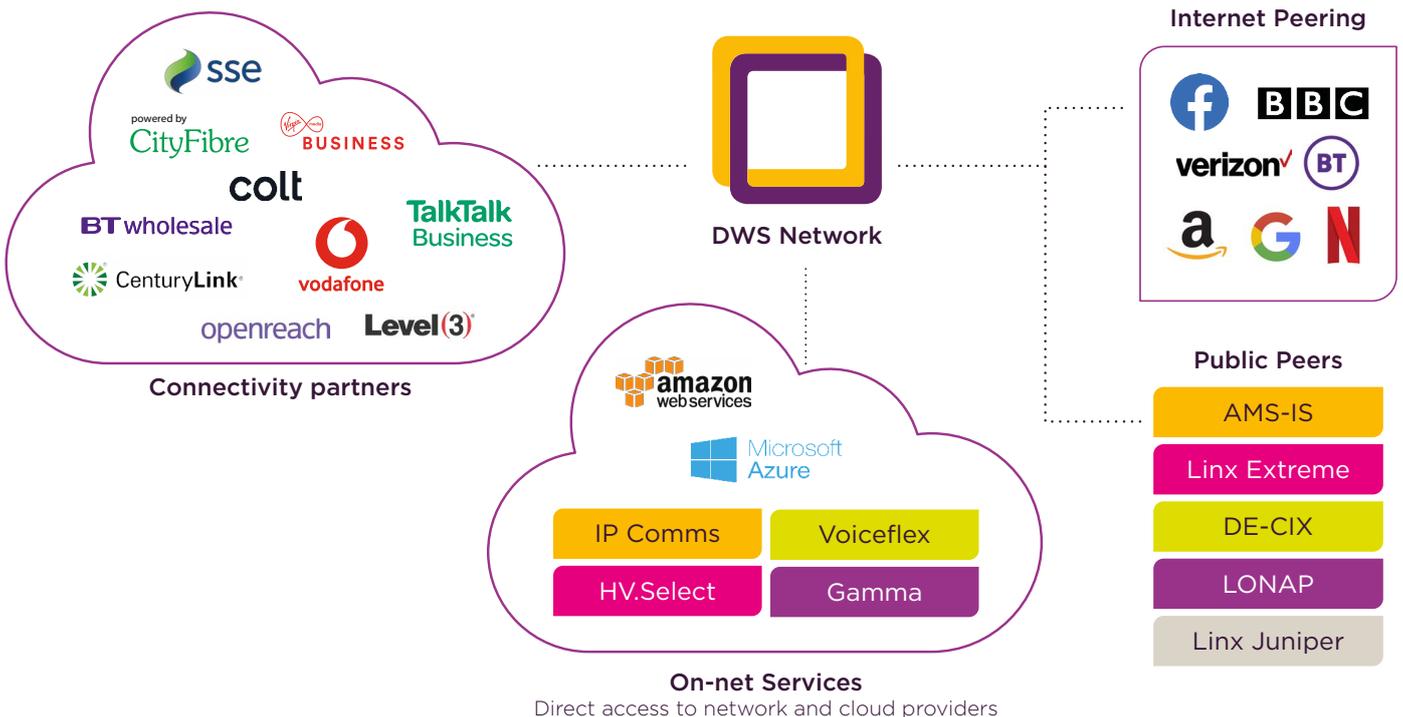
Equinix MA1
Williams House
Manchester Science Park
Manchester
M15 6SE

Network diagram - DWS PoPs



Peering

Private termination into Azure and AWS. Over 300 ISP and content providers via private and public peering. **Private peers include:** BBC, Facebook, BT, Google, Netflix, Amazon, Verizon. **Public Peers include:** AMS-IS, LINX Extreme, LINX Juniper, DE-CIX, LONAP





Internet Access Connectivity Solution:

A complete end-to-end solution whereby DWS provides the connectivity product over the access line, which authenticates and traverses through the DWS network to provide on-net services and breakout to the internet.

Suitable for partners who do not have their own network infrastructure or would rather run some of their services over the DWS network.

Connectivity Partner Network Solution:

As a partner you may already have your own network infrastructure where you provide internet breakout but essentially require DWS to provide the access line connectivity. DWS can accommodate this through connecting to the Partner Network via a point of interconnect at one or more of our POPs, whereby DWS network will connect your Broadband or Ethernet services connection requests to your network, allowing you to fully manage the authentication, IP addressing and customer traffic.

