



Wide Area Networks

The business advantages of 8el WAN's include:

- *Quality of Service enabled services allowing business critical applications to be prioritised across the network.*
- *Superior network design to deliver the right 'fit' for each individual customer.*
- *Full national network coverage with multiple network carriers.*
- *A range of access technologies to best suit the individual business.*
- *Highly resilient, robust networks.*
- *24/7 engineering cover and pro-active fault finding.*
- *Fully scalable, VoIP ready WAN's with greater flexibility for future growth*

VoIP ready data networks for multi-site corporates

8el has extensive experience designing and building award winning Wide Area Networks (WANs). 8el's range of data services focus on the security, speed and reliability of data transit; helping multi site businesses connect safely and efficiently using a blend of technologies.

Whether it's sharing critical applications across a WAN, connecting to remote workers, or emailing clients around the world, each solution is designed to be closely tailored to fit individual customer requirements.

NGN enabled networking

The communications industry is currently undergoing a radical change with the advent of Next Generation Network (NGN) technology and the move from Customer Premise Equipment (CPE) to network based solutions.

An NGN is a packet switched data communications network, which enables voice, video and data to be carried over a single infrastructure; delivering multiple services over a single network from a single provider.

8el's 'Quality of Service' (QoS) enabled WANs stem from expertise in designing and running converged network solutions, ensuring the smooth transition to and deployment of NGN services – including VoIP.

Quality of Service

Each customer Wide Area Network is configured to support QoS as

standard, allowing business critical applications and time sensitive traffic (such as VoIP, thin client application and Video) to be prioritised across the network. QoS is an integral part of the 8el offering, and not an additional cost as it is included as standard.

Full national network coverage

8el has partnerships with multiple network carriers providing national coverage with access to over 140 Points of Presence (PoP's).

For each customer, 8el is able to work with the most appropriate underlying network partner to supply a cost effective, fully managed network.

In addition to national networking, international coverage is provided via connections to global carriers from PoP's in 8el's data centres in London.

About 8el

8el is a trusted supplier to leading companies nationwide, delivering services to over 40,000 users. Designed by industry experts in collaboration with end users, solutions complement existing business infrastructures and provide a clear ROI.

Our reputation for providing efficient, cost effective communications networks comes from our ability to combine cutting edge technology with quality expertise and accessible, proactive support.

Access technologies

Customer sites can be connected into an 8el WAN via a number of different access technologies to best suit each individual site including:

- Private ADSL (contended and un-contended)
- ISDN lines
- Private leased lines (2-8Mbps)
- LES 10/100/1000

Technologies include ATM, DSL, Ethernet, Frame Relay and MPLS to connect remote single users through to core network sites.

Resilience options include:

- ISDN backup (up to 512Kbps)
- Private and public ADSL backup
- Secondary leased line (fibre) diversely routed and connected to a different exchange.
- Router resilience using Hot Standby Routing Protocol (HSRP)
- Inverse Multiplexing (IMA)

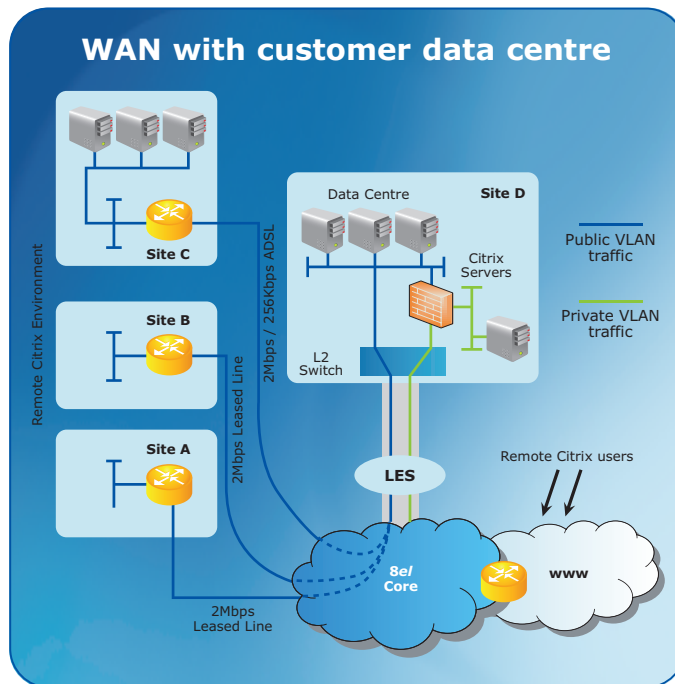
8el maintains a highly resilient core network including two separate key co-location facilities. This approach can be adopted to negate any single points of failure.

Network monitoring

With the emergence of NGN, 8el can now offer customers increased visibility and control of their network with their updated 8e/Watch service

- Better planning for future requirements
- Empowers IT professionals with the tools to make informed decisions
- Allows bespoke reporting to cover specific customer requirements
- Provides alerting of network issues before they become service affecting

The 8e/Watch network monitoring tool offers the customer the ability to define bespoke reports on network usage and alerts managers before faults become service affecting.



Network resilience

To ensure resilience, 8el can install secondary, back-up networks. For example, customers can choose to have additional DSL or network circuits installed to complement existing fibre connections into their building.