



## Private DSL Services

### Features and benefits of 8el DSL services include:

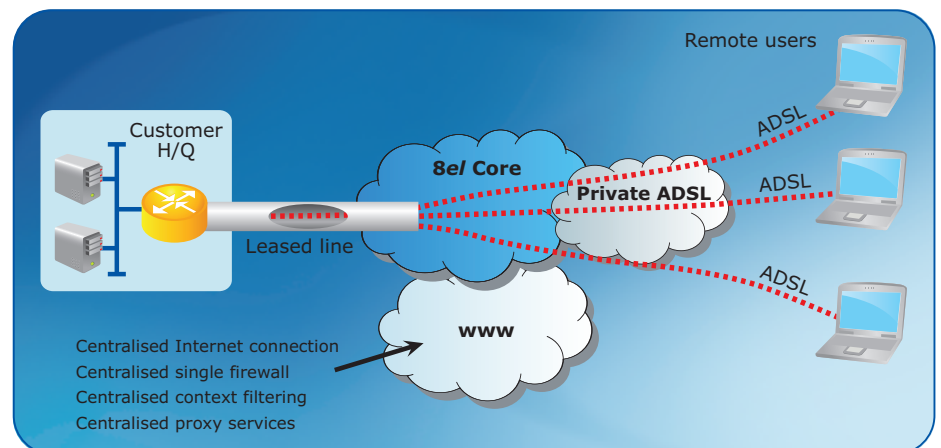
- Efficient use of bandwidth as no data encryption is required
- Private infrastructure eliminates the requirement for individual firewalls
- Ability to utilise an existing analogue line or a line supplied via 8el
- Option of a centralised Internet gateway
- Centralised management of access to the Internet via co-location of proxy, caching and content filtering servers
- ISDN backup as a seamless failover in the event that the primary DSL connection is unavailable

### Secure, cost effective DSL services for UK businesses

As businesses become more dispersed, demand for rapid, cost efficient and secure data connectivity from any access point has risen dramatically.

8el's fully managed, private DSL service offers secure connectivity between small or home offices (SOHO) and a central location.

### Private WAN DSL solutions



Digital Subscriber Line (DSL) technology allows data to be sent across a copper (or analogue) circuit that would traditionally only be used for telephony. 8el delivers a flexible range of DSL services to enable them to supply UK businesses with their required bandwidth and contention. 8el's DSL services include ADSL, ADSL MAX and SDSL.

By utilising DSL technology, a dedicated private circuit is established, delivering fast, secure and quality data transit for a fraction of the cost of running traditional leased line connections.

Additionally, 8el provide connections of 1:1 and 5:1 contention that are ideal DSL technologies for supporting VoIP from a small or home office back to the 8el's IP Centrex platform.

8el DSL is delivered over a private infrastructure, reducing the cost and management overhead of configuring a public VPN solution with a firewall.

Access to the Internet can be provided via a centralised gateway located within the 8el core.

### **Private un-contended and contended ADSL Service**

*Asymmetric Digital Subscriber Line (ADSL) is an access technology that enables businesses to more rapidly and cost effectively deliver data to remote sites.*

*ADSL is an asymmetric technology because the download speed is faster than the upload speed. Most users download much more information than they send, or upload, therefore ADSL works best in environments such as remote sites accessing centralised data.*

*8el has two ADSL product offerings, ADSL Standard and ADSL Plus. ADSL Standard is a contended service (2:1, 5:1, 10:1, 20:1 and 50:1). ADSL Plus is an un-contended service (1:1). Both services are available with an upload speed which is set at 256Kbps; download speeds range from 256Kbps to 2Mbps.*

### **High speed SDSL services**

*8el's private SDSL (Symmetric Digital Subscriber Line) service is a technology that provides high-speed "always on" access designed for small to medium sized businesses. If required, SDSL can be utilised as a backup connection to a leased line service delivered over fibre.*

*SDSL requires a dedicated analogue line and cannot share lines with an analogue telephone.*

*Unlike other forms of DSL service, SDSL is symmetric, which means you get the same download and upload speed.*

*SDSL speeds include 256Kbps to 2Mbps with contentions of 1:1, 5:1, and 10:1.*

## **ADSL MAX Connectivity of up to 8Mbps**

Where customers require an ADSL connection which exceeds 2Mbps, 8el offers ADSL MAX which can deliver connectivity speeds of up to 8Mbps.

ADSL MAX is not a new standard of ADSL, but does have a few differences to traditional ADSL. ADSL MAX offers increases in both download and upload speeds, while the maximum speed available will be 'Rate Adaptive'.

Rate Adaptive means that the maximum connection speed is determined by the quality of the analogue line. Since line quality can vary over time, special equipment

installed in the exchange is used to monitor your line performance and adjust the connection speed accordingly.

The actual line rate supportable will be determined during the first 10 days of use, after which time the highest stable rate possible will be set.

8el ADSL MAX is available as two offerings, Standard and Plus.

The Standard service offers the same download speed with upload speeds of up to 448Kbps. ADSL MAX Plus provides upload speeds of up to 860Kbps and download speeds of up to 8Mbps.

## **8el's Private DSL services**

Service	Download bandwidth	Upload bandwidth	Contention	ISDN Backup
<b>ADSL</b>	2Mbps	256Kbps	1:1, 2:1, 5:1, 10:1, 20:1, 50:1	*128Kbps
	1Mbps	256Kbps	1:1, 2:1, 5:1, 10:1, 20:1, 50:1	*128Kbps
	512Kbps	256Kbps	1:1, 2:1, 5:1, 10:1, 20:1, 50:1	*128Kbps
	256Kbps	256Kbps	1:1, 2:1, 5:1, 10:1, 20:1, 50:1	*128Kbps
<b>ADSL MAX Plus</b>	288Kbps to 8Mbps	64 – 860Kbps	20:1	*128Kbps
<b>ADSL MAX Standard</b>	288Kbps to 8Mbps	64 – 448Kbps	50:1	*128Kbps
<b>SDSL</b>	2Mbps	2Mbps	1:1, 5:1, 10:1	*128Kbps
	1Mbps	1Mbps	1:1, 5:1, 10:1	*128Kbps
	512Kbps	512Kbps	1:1, 5:1, 10:1	*128Kbps
	256Kbps	256Kbps	1:1, 5:1, 10:1	*128Kbps

\* Optional ISDN backup when using a Cisco router.

