



# Jcom's Next Generation Internet Access

## PowerNGN 100

- 100meg fibre optic connection circuit
- Circuit supplied with 100meg Internet access
- Route1tm - Jcom's intelligent routing algorithm delivering the UK's fastest Internet access
- Next Generation versatility – split the circuit to deliver multiple services and applications
- Fully managed service with our Ethernet Demarcation Device and 24/7 London NOC
- 99.9% SLA extendable to 99.999%

## PowerNGN 100

No organisation can compete effectively without guaranteed fast, reliable, secure, and scalable communications networks. Yet many continue to rely on legacy systems and networks: Using yesterday's technologies to do tomorrow's work. The result is an inflexible architecture costing more than it should to run and maintain and which is no longer fast or agile enough to support fast-changing business needs.

For most large companies this is an unsustainable situation to which the answer is in next generation convergent technologies which are not only cost effective to operate and manage, but which better support the current business and its continuing evolution. Most companies today have already recognized that the way forward to enhance their corporate agility and competitiveness is to invest in Next Generation Networks (NGNs).

Whether this investment is a key enabler of their IT virtualisation projects, a route to transforming their global WAN to a global LAN, the driver to reduce total network costs, or simply to be the network fabric that simplifies multiple legacy networks – companies today recognize the need to invest in and implement an NGN. The versatility, flexibility, and control an NGN imparts to your company are realized in the enhanced corporate agility you now have at your disposal.

Jcom invested in and built Europe's first ever core NGN in October 2002 and since then have worked tirelessly with further investments to extend and reinforce this network to build the Enterprise class NGN we have today.



## The Solution

Jcom's PowerNGN 100 is the first steppingstone of your NGN investment. It comprises of a 100meg fibre optic connection, called PowerAccess, into our core NGN, (see Fig 1 below), and is the gateway to a multitude of complementary services that will simplify and enhance your business whilst reducing your costs. Once you have the PowerAccess circuit in place, your first default service – 100meg Internet access - is included:

### **100meg Internet Access - Premium Grade-Carrier Class Internet**

The Internet connection you receive with PowerNGN 100 is the highest performance professional-grade Internet available in the UK, it is called PowerServe. Our unique real-time route optimization functionality, called Route I™, constantly probes the gateways of our five Tier 1 providers to discover, at any given moment, which global Internet route offers the lowest latency, lowest packet loss and best jitter characteristics – meaning you benefit from the highest quality and fastest connection times available in the UK. Our competitors simply cannot match the speed and power of PowerNGN. Importantly, Route I™ is Jcom's proprietary routing algorithm that has been refined and further optimized over the past five years. It is exclusive to Jcom and our clients.

### **But what if you don't need the full 100meg Internet access capacity?**

That's fine. Take what you need and split the circuit up to use for other services or applications. For example, you may want to split the 100meg circuit up as follows:

- 30meg Internet access
- 20meg SIP trunk
- 50meg direct connection to your DR or data centre

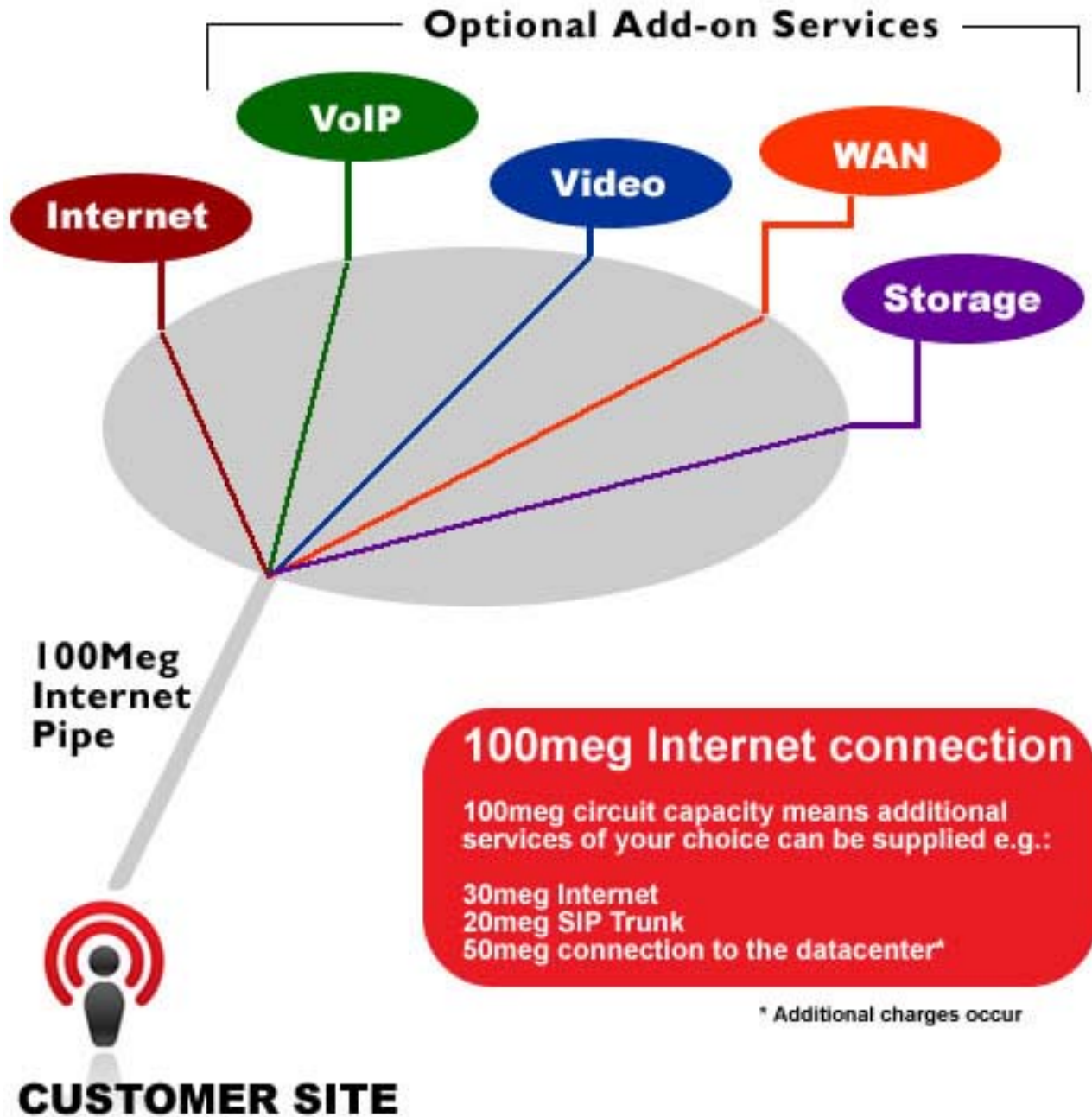
### **And tomorrow, your business has changed and you may wish to re-configure the circuit capacity as follows . . .**

- 30meg Internet access
- 20meg SIP trunk
- 45meg direct connection to your DR or data centre
- 5meg direct connection to your office in Manchester for video conferencing

With the versatile PowerNGN circuit in place, it is up to you to decide how you wish to configure the capacity on the circuit to create the bespoke network solution that meets your day-to-day operational requirements; whether this is a direct connection to your other offices to facilitate video conferencing, SIP trunks to enable Voice over IP or displace old ISDN voice channels, or direct connections into data centres for off-site data storage, the options are almost limitless.



## Jcom's Next Generation Networks Model





## Features

## Benefits

100meg Internet  
Access (PowerServe)

- Fastest available in the UK and lowest latencies and Jitter rates
- Key enabler of mission critical services and applications
- Symmetric 100meg service
- Capacity to enable faster uploads and downloads
- Overcome traffic spikes for smoother end-user experience

Versatile Optional  
Circuit

- Fibre Optic circuit
- Capacity to enable multiple additional services: Enterprise VoIP, SIP Trunks, Off-Site Storage, Private National and International WAN connectivity, Video Links & other 3rd party solutions
- QoS enabled per service
- 99.9% SLA extendable to 99.999%

Fully Managed  
Service  
Jcom Demarcation  
Device

- Proactive 24x7 monitoring and fault management
- Advanced remote Operation, Administration and Maintenance (OAM)
- Link performance monitoring
- Fault detection capabilities
- Physical service separation and Bandwidth Allocation – CIR/PIR
- Performance Statistics
- Key to service management down to customer premises – 802.ah

NGN Fibre Optic  
Circuit Connection

- Multiple services delivery
- Reliability – 24/7 service uptime
- Cost savings on voice & data

## Further Benefits

The Jcom PowerNGN offer is the first step in moving your business to a more powerful and versatile Next Generation Network. As a standard service, it is supplied with a 100meg superfast Internet connection which is ideal for faster, symmetrical up-and-downloads. However, such is its versatility; we can configure PowerNGN to your exact bespoke operational requirements. As your business changes and grows, we can develop your Wide Area Network to incorporate many other features and benefits deliverable from a carrier-class Next Generation Network provider.

Our clients are treated as partners. As your network partner, as opposed to supplier, whenever required, we will help you to design, build, and manage your networks to the highest operational standards available in the UK. Our clients are the largest financial, media and global corporations in the world and our mission statement is to be recognized by our peers, competitors



and clients as the most advanced network design and provide company in Europe. We believe we are already there. Corporate agility powered by Applied Innovation from Jcom.

## **Deliverables an NGN offers:**

- Improved voice and data communications network
- Cost savings
- Key enabler of storage and server virtualisation projects
- Enhanced network for security and business continuity
- Enhanced unified collaboration and communications

## **Contact Jcom UK Ltd to find out more about our PowerNGN 100 services:**

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