

DWDM - DENSE WAVE DIVISION MULTIPLEXING CONNECTING DATA CENTRES AT 10GB ETHERNET

As larger Corporations move towards virtualization and the outsourced data centre, real time access and high-speed replication of tiered data storage becomes critical. Cloud computing demands the same response on the WAN as the LAN, and at Node4 we're seeing increasing demand for 10Gb and fibre channel between our Data Centres.

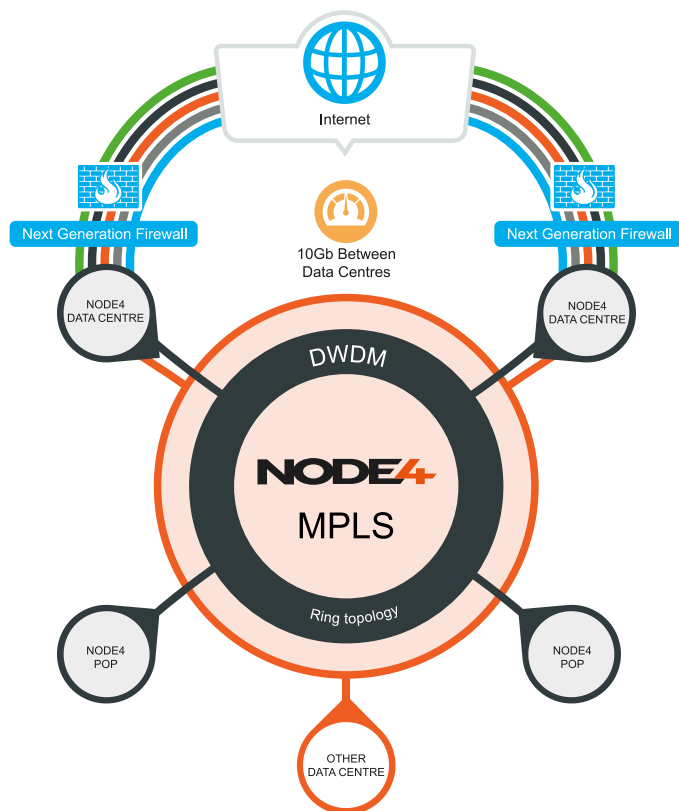
To make certain our core network is ready to deliver we've made a multi-million pound investment in our own dark fibre and DWDM; which now connects our POPs and data centres. This gives our customers not only the best possible experience in terms of transfer between SANs but also the capacity to plan for the anticipated growth of those storage requirements for many years.

Virtualizing mission-critical applications such as Oracle, SQL and SAP requires an infrastructure capable of supporting higher I/O levels and lower latency. UK data centre providers typically use carrier services between locations, and struggle to respond to the bandwidth demands of multi-tenant architectures. With DWDM Node4 can provide a 10Gb layer 2 service between data centres in a matter of days – a fraction of the time required using traditional carrier services, and at the lowest possible cost.

The Node4 DWDM delivers consistent low-latency Ethernet between our Data Centres and PoPs at up to 10Gb on a single channel. This enables organisations hosting delay-sensitive applications in Node4 co-location and cloud facilities to transfer storage and replication data reliably between sites at previously unattainable speeds, and with room to accommodate the growth forecasted over the next years.

Owning our DWDM improves our capability to optimise the performance of our customers applications from the bare metal or the virtual machine in the Data Centre right through to the desk top. Being able to respond to our customers demands in this way is at the core of our business, and lowering the cost of high speed data transfer is another example of the Node4 portfolio of complimentary services in action. As the backbone of the Node4 core Network DWDM not only connects the data centre services but also delivers the Node4 MPLS and VoIP services.

All Node4 services can be routed with diversity through the ring-topology of the DWDM network serving our Leeds and Northampton data centres as well as our major PoPs throughout the UK.



KEY BENEFITS

EASE OF USE

Bring your data centre "On-Net" to allow for instant scalability.

SPEED

High-speed replication and low latency between data centres with Fibre Channel or Ethernet presentation.

COST

Fast deployment of N*10Gb bandwidth available at competitive cost.

SECURITY

Our resilient MPLS over DWDM provides a highly secure network infrastructure for all your needs.

CONTROL

Centralised Internet Breakout to and from the MPLS core network simplifies security management

For more information on MPLS over DWDM, or other products and services we offer please call our team today: 0845 123 2222 or email us: info@node4.co.uk



EASE OF USE



Fastest install

We can handover a Layer2 connection from any Node4 PoP, delivering high-bandwidth in a fraction of the time required by conventional carrier services.

Integrate with your existing data centre

Plan a migration or build a DR site without lifting and shifting of server hardware. Simply duplicate the hardware, connect the Data Centres and replicate the data in a new storage silo.

HIGH SPEED REPLICATION



Guaranteed latency

DWDM provides consistent and lowest latency between Data Centres, so you know your transactions will be delivered.

Directly connected systems

Minimise the routing time between your locations with a layer 2 interconnect.

Data transfer without loss or delay

In the world of on-line apps every transaction is a potential ROI, don't lose transactions due to delay, and don't lose or duplicate data.

FIBRE CHANNEL OR ETHERNET PRESENTATION



Distributed storage

We can offer an 8Gb fibre channel or 10Gb Ethernet service across the DWDM. You can now distribute tiers of storage across de-centralised libraries.

SLA's

Guaranteed performance protected by rigorous Service Level Agreements, and a 24*7 team of UK based Engineers.

Expert engineers

Our UK based team of dedicated engineers are highly qualified and industry certified with vast experience in delivering complex network solutions and providing comprehensive and reliable customer support.

CENTRALISED INTERNET BREAKOUT



Diverse internet breakout

We are connected to the UK internet backbone through multiple transit partners to provide resilience and capacity.

Secure topology

With all sites breaking out to the internet from a single point, your attack surface is minimised, so it's simpler to maintain defences against potential threats.

95% billing option

If you need internet bandwidth with a high burst ratio, we can bill based on a pay-as-you-go basis, so you only pay for what you use.

IPv6 ready

We can provide unlimited address space from our IPv6 range.

SECURITY & COMPLIANCE



ISO 27001 information security

Our ISO 27001 security certification ensures we meet stringent control requirements to manage information security.

Managed firewall

Using the latest firewall technologies we can provide a High-Availability Managed Firewall service to protect you against intrusion, data loss and abuse.

PCI Compliance

A completely private network means financial services and transactions can be made compliant with PCI standards.

INSTANTLY SCALABLE N* 10GB BANDWIDTH



Layer 2 or layer 3

Choose from a routed or switched service between PoPs and DCs to minimize the overhead.

High capacity

Our own DWDM backbone provides huge capacity between Data Centres and PoPs. Where other providers offer a shared service, we guarantee your bandwidth 24x7.